

<110> Rosen et al.

<120> 31 Human Secreted Proteins

<130> PZ033P1

<140> Unassigned

<141> 2000-03-20

<150> 60/101,546

<151> 1998-09-23

<150> 60/102,895

<151> 1998-10-02

<160> 140

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

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<211> 5

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

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<211> 86

<212> DNA

<213> Homo sapiens

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cccgaaatat ctgccatctc aattag 86

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<213> Homo sapiens

<400> 4
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<210> 5
<211> 271
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
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<210> 9
<211> 73
<212> DNA

<213> Homo sapiens

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<211> 256

<212> DNA

<213> Homo sapiens

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cagttccgccc cattctccgc cccatggctg actaattttt tttatattatg cagaggccgaa	180	
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cttttgcaaa aagctt	256	

<210> 11

<211> 2007

<212> DNA

<213> Homo sapiens

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gtacttcctg gtctctggga tgacttcaga ttctgctggc caaggcaaata tgaactcagt	180	
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2007

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<212> DNA
<213> Homo sapiens

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<222> (19)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1622)
<223> n equals a,t,g, or c

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gaccgtcatt ctggccctcg	tcaaacgacac	300
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ccccacggcg ctgcccgtatg	660	
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gcctgtggca gcggcgccca	780	
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aaaaaaaaaaaaaaa	1800	
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<212> DNA
<213> Homo sapiens

<400> 13

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<211> 1389
<212> DNA
<213> Homo sapiens

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<210> 15
<211> 1873
<212> DNA
<213> *Homo sapiens*

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<211> 2409
<212> DNA
<213> Homo sapiens

<400> 16

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tccgggggtga	gacgggcaag gacagggaga	agtcttattc	gtgggttgcgc	840
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<212> DNA
<213> Homo sapiens

<400> 17

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c.

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<211> 3430
<212> DNA
<213> *Homo sapiens*

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 21
<211> 2425
<212> DNA
<213> Homo sapiens

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<220>
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<222> (854)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (858)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<222> (2197)
<223> n equals a,t,g, or c

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<210> 22

<211> 1971

<212> DNA

<213> Homo sapiens

<400> 22

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<210> 23

<211> 1130

<212> DNA

<213> Homo sapiens

<400> 23

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<212> DNA
<213> Homo sapiens

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<210> 25
<211> 916
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (499)

<223> n equals a,t,g, or c

<400> 25

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ccagtgccta	ccatgcagaa	agcagtca	tgta	ctgg	tcaggtgata	180
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<210> 26

<211> 2094

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2078)

<223> n equals a,t,g, or c

<400> 26

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tca	aatca	gtctgtgtg	acattccggg	aagagaacac	catgccttc	420
tcctgtggg	ctactcgac	ggagcggtat	acacc	ac	cgacacctct	480
tgtaccaggc	catcttccat	gtgtggacc	agtac	cttgcctgac	gtgtcactgg	540
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tg	ctgc	cgat	tc	ct	cgaggcttcc	1140
gg	at	ccat	tc	ct	atc	1200
ccat	tc	ccat	tc	tc	tc	1260
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tg	ac	ctt	cc	ct	cc	1380
tc	at	cc	cc	cc	cc	1440
tc	at	cc	cc	cc	cc	1500
tct	cg	ct	cc	cc	cc	1560
gg	ca	at	cc	cc	cc	1620

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<210> 27
<211> 2076
<212> DNA
<213> Homo sapiens

<400> 27						
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atcattcaca	gtatcc	ctg	tc	acta	tttacataa	1560
tg	ttt	ccctgtat	ca	ttt	tttacat	1620
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actttt	ttttt	ttt	ttt	ttt	tttttcat	1740
cctt	ttttt	ttt	ttt	ttt	tttttcat	1800
gataata	ttaaaactt	ggtctactt	tgcc	catt	tttttcat	1860
catggaa	at	ttt	ttt	ttt	tttttcat	1920
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<210> 28
<211> 1378
<212> DNA
<213> Homo sapiens

<400> 28

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<210> 29
<211> 1965
<212> DNA
<213> Homo sapiens

<400> 29						
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<210> 30
<211> 1473
<212> DNA
<213> Homo sapiens

<400> 30	
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<210> 31
<211> 1157
<212> DNA
<213> Homo sapiens

<400> 31	
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<210> 32
<211> 2190
<212> DNA
<213> Homo sapiens

<400> 32	
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<210> 33
<211> 2511
<212> DNA
<213> Homo sapiens

<400> 33

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<210> 34

<211> 1684

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35
<211> 2383
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (538)
<223> n equals a,t,g, or c

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gt	tcaagtag	tttttacaat	atgtacagca	gttcttgc	cgatagctt	360
ct	cttcccga	tgtccagta	ttaacaaga	ccctgctcac	ctcagaacaa	420
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<210> 36
<211> 1815
<212> DNA
<213> Homo sapiens

<400> 36						
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<210> 37
<211> 1466
<212> DNA

<213> Homo sapiens

<400> 37

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<210> 38

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1059)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1077)

<223> n equals a,t,g, or c

<400> 38

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<210> 39
<211> 2558
<212> DNA
<213> Homo sapiens

<400> 39	
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<210> 40
<211> 1939
<212> DNA
<213> *Homo sapiens*

<400> 40	
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<210> 41
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<212> DNA
<213> *Homo sapiens*

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<210> 42
<211> 1897
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (406)
<223> n equals a,t,g, or c

<400> 42

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<210> 43
<211> 1796
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (417)
<223> n equals a,t,g, or c

<400> 43

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<210> 44
<211> 2136
<212> DNA
<213> Homo sapiens

<400> 44

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<211> 2081
<212> DNA
<213> Homo sapiens

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<211> 1135
<212> DNA
<213> Homo sapiens

<400> 46

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ctgcacctac	agcacgtcg	tgggagacag	cttcgcctg	gagtgagct	ttgtgcagcc	240
tgggaaaccc	atctctgagt	cccatccaa	cctgtactt	accaatggcc	atctgtatcc	300
aactggttct	aagtcaaagc	gggtcagct	gcttcagaac	ccccccacag	tgggggtggc	360
cacactgaaa	ctgactgacg	tccacccctc	agatactgga	acctacctct	gccaagtcaa	420
caacccacca	gatttctaca	ccaaatgggtt	ggggctaattc	aaccttactg	tgtgggttcc	480
ccccagtaat	cccttatgca	gtcagatgg	acaaacctct	gtgggaggct	ctactgcact	540
gagatgcagc	tcttccgagg	gggctctaa	gccagtgtac	aactgggtgc	gtcttggAAC	600
ttttcctaca	ccttctccctg	gcagcatgtt	tcaagatgag	gtgtctggcc	agtcatttct	660
caccaaccc	tccctgacct	cctcgggcac	ctaccgctgt	gtggccacca	accagatggg	720
cagtgcattc	tgtgagctga	ccctstctgt	gaccgaaccc	tcccaaggcc	gagtgccgga	780
gctctgattt	gggtgtctct	gggcgtgt	ttgtgtcgt	ttgtgtcg	ctgcctggc	840
aggttccaga	aagagagggg	gaagaagccc	aaggagacat	atgggggtag	tgaccttcgg	900
gaggatgcca	tcgctcctgg	gatctctgag	cacacttgt	tgagggctga	ttctagcaag	960
gggttcctgg	aaagaccctc	gtctgcccagc	accgtgacga	ccaccaagt	caagctccct	1020
atgttcgtgt	gacttctccc	gatccctgag	ggcggtgagg	ggaaatatac	ataattaaag	1080
tctgtggta	ccawaaaaaa	aaaaaaaaaa	aaaaaaaaactc	gagggggggc	ccgg	1135

<210> 47
<211> 1227
<212> DNA
<213> Homo sapiens

<400> 47

ggcacgaggt	ggggtcctcc	tctggcctcc	tgcccctct	gtgtgtgt	ctgtttccat	60
tgctggcagc	ccaggggtgg	ggtggcctgc	aggcagcgct	gttggccctt	gaggtggggc	120
tggtgggtct	gggggcctcc	tacctgctcc	tttgtacagc	cctgcacctg	ccctccagtc	180
ttttctact	cctggcccag	gttaccgcac	tggggccgt	cctggccctg	agctggcgcc	240
gaggcctcat	gggtgttccc	ctgggcctt	gagctgcctg	gtctttagct	tggccaggcc	300
tagtctacc	tctggtggct	atggcagcgg	ggggcagatg	ggtgcggcag	cagggcccc	360
gggtgcgccg	gggcataatct	cgactctgg	tgccggttct	gtgcgcctg	tcaacccatgg	420

ccttccgggc cctgcagggc tgggggacgtg tgggggaccg gggtctgttt	480
caaaaaccaa caaggatggc ttccgcagcc gcctggccgt ccctggggcc cggcgccgta	540
atccccgcac cacccaacac ccattagctc tggtggcaag ggtctgggtc ctgtgcaagg	600
gctggaactg gcgtctggca cggggccagcc agggtttagc atcccacttg ccccccgtggg	660
ccatccacac actggccagc tggggcctgc ttccgggtga acggccaccc gaatcccccg	720
gctactacca cgcaagccagc gccagctagg gccccctgcc tcccgccagc cactgcccagg	780
gactctagcc gggcgaggt cacgcaccccg ccagtccccgg gcccctgcccc cctggaggta	840
gctgactcca gcccctccag cccaaatcta gagcatttagc cactttatct cccacgactc	900
agtgaagttt ctccagtcac tagtcctotc ttttcaccca ctttcctcag ttgtctcaact	960
taccccgaggc ccagccttcg gacctctaga caggcagccct cctcagctgt ggagtccagc	1020
agtcaactctg tggttcctcg ggcgtcctcc cctaagttat tgctgttcgc ccgctgtgtg	1080
tgctcatcctt caccctcatt gactcaggcc tggggccagg ggtggtgag ggtgggaaga	1140
gtcatgtttt ttttcctcctc tttgatttttgc tcccttcacca cctgtccctt	1200
ccccccacca aaaaaaaaaaaaaaaa	1227

<210> 48
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals stop translation

<400> 48
Met Pro Leu Gln Pro Trp Asp Thr Phe Met Ile Leu Gly Leu Tyr Phe
1 5 10 15
Leu Val Ser Gly Met Thr Ser Asp Ser Ala Gly Gln Gly Lys Leu Asn
20 25 30
Ser Val Gln Asp Gly His His Trp Xaa
35 40

<210> 49
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (294)
<223> Xaa equals stop translation

<400> 49
Met Val Ile Phe Thr Leu Ser Val Ser Met Leu Leu Arg Tyr Ser His
1 5 10 15
His Gln Ile Phe Val Phe Ile Ala Pro Leu Leu Thr Val Ile Leu Ala
20 25 30
Leu Val Gly Met Glu Ala Ile Met Ser Glu Phe Phe Asn Asp Thr Thr
35 40 45
Thr Ala Phe Tyr Ile Ile Leu Ile Val Trp Leu Ala Asp Gln Tyr Asp
50 55 60

Ala Ile Cys Cys His Thr Ser Thr Ser Lys Arg His Trp Leu Arg Phe
 65 70 75 80

Phe Tyr Leu Tyr His Phe Ala Phe Tyr Ala Tyr His Tyr Arg Phe Asn.
 85 90 95

Gly Gln Tyr Ser Ser Leu Ala Leu Val Thr Ser Trp Leu Phe Ile Gln
 100 105 110

His Ser Met Ile Tyr Phe Phe His His Tyr Glu Leu Pro Ala Ile Leu
 115 120 125

Gln Gln Val Arg Ile Gln Glu Met Leu Leu Gln Ala Pro Pro Leu Gly
 130 135 140

Pro Gly Thr Pro Thr Ala Leu Pro Asp Asp Met Asn Asn Asn Ser Gly
 145 150 155 160

Ala Pro Ala Thr Ala Pro Asp Ser Ala Gly Gln Pro Pro Ala Leu Gly
 165 170 175

Pro Val Ser Pro Gly Ala Ser Gly Ser Pro Gly Pro Val Ala Ala Ala
 180 185 190

Pro Ser Ser Leu Val Ala Ala Ala Ser Val Ala Ala Ala Ala Gly
 195 200 205

Gly Asp Leu Gly Trp Met Ala Glu Thr Ala Ala Ile Ile Thr Asp Ala
 210 215 220

Ser Phe Leu Ser Gly Leu Ser Ala Ser Leu Leu Glu Arg Arg Pro Ala
 225 230 235 240

Ser Pro Leu Gly Pro Ala Gly Leu Pro His Ala Pro Gln Asp Ser
 245 250 255

Val Pro Pro Ser Asp Ser Ala Ala Ser Asp Thr Thr Pro Leu Gly Ala
 260 265 270

Ala Val Gly Gly Pro Ser Pro Ala Ser Met Ala Pro Thr Glu Ala Pro
 275 280 285

Ser Glu Val Gly Ser Xaa
 290

<210> 50

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals stop translation

<400> 50

Met Ala Gly Pro Arg Gly Leu Leu Pro Leu Cys Leu Leu Ala Phe Cys

1

5

10

15

Leu Ala Gly Phe Ser Phe Val Arg Gly Gln Val Leu Phe Lys Gly Cys
 20 25 30

Asp Val Lys Thr Thr Phe Val Thr His Val Pro Cys Thr Ser Cys Ala
 35 40 45

Ala Ile Lys Lys Gln Thr Cys Pro Ser Gly Trp Leu Arg Glu Leu Pro
 50 55 60

Asp Gln Ile Thr Gln Asp Cys Arg Cys Gly Pro Pro Leu Ser Leu Pro
 65 70 75 80

Val Ser Arg Ser Ile Leu Trp Gly Gly Arg Asp Ser Gly Ser Leu Thr
 85 90 95

Gly Pro Gln Asn Glu Glu Lys His Ser Leu Ile His Ala Pro Val Ala
 100 105 110

Pro Pro Gly Trp Trp Arg Xaa
 115

<210> 51

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals stop translation

<400> 51

Met Thr Ser Ile Phe Thr Ser Leu Ala Val Val Thr Gly Val Leu Ile
 1 5 10 15

Leu Val Gly Cys Cys Ile Thr Pro Ser Val His Gly Leu Val Gln Arg
 20 25 30

Leu Thr Glu Thr Ala Leu Thr Lys Thr Ser Leu Asn Ser Ser Pro Pro
 35 40 45

Tyr Ser Asp Lys Leu Pro Leu Leu Asp His Gln Glu Gln Gln Ser
 50 55 60

Gln Ile Met Phe Glu Lys Phe Glu Glu Gly Lys Leu Xaa
 65 70 75

<210> 52

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals stop translation

<400> 52

Met	Trp	Ser	Leu	Val	Ser	Val	Ser	Val	Leu	Val	Leu	Thr	Cys	Ala	Val
1				5					10				15		

Asp	Val	Ala	Glu	Gly	Leu	Gly	Trp	Gly	Glu	Val	Ser	Thr	Gly	Gly	Ile
					20			25				30			

Glu	Leu	Pro	Arg	His	Met	Val	Leu	Val	Val	Leu	Val	Glu	Arg	Glu	Phe
					35			40				45			

Pro	Glu	Val	Ser	Asp	Met	Leu	Pro	Leu	Lys	Pro	Phe	Pro	Gln	Gly	Asp
					50			55			60				

Arg	Tyr	Val	Ser	Arg	Xaa									
					65			70						

<210> 53

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (320)

<223> Xaa equals stop translation

<400> 53

Met	Ser	Ser	Asn	Lys	Glu	Gln	Arg	Ser	Ala	Val	Phe	Val	Ile	Leu	Phe
1					5				10				15		

Ala	Leu	Ile	Thr	Ile	Leu	Ile	Leu	Tyr	Ser	Ser	Asn	Ser	Ala	Asn	Glu
					20			25				30			

Val	Phe	His	Tyr	Gly	Ser	Leu	Arg	Gly	Arg	Ser	Arg	Arg	Pro	Val	Asn
					35			40				45			

Leu	Lys	Lys	Trp	Ser	Ile	Thr	Asp	Gly	Tyr	Val	Pro	Ile	Leu	Gly	Asn
					50			55			60				

Lys	Thr	Leu	Pro	Ser	Arg	Cys	His	Gln	Cys	Val	Ile	Val	Ser	Ser	Ser
					65			70			75				80

Ser	His	Leu	Leu	Gly	Thr	Lys	Leu	Gly	Pro	Glu	Ile	Glu	Arg	Ala	Glu
					85			90			95				

Cys	Thr	Ile	Arg	Met	Asn	Asp	Ala	Pro	Thr	Thr	Gly	Tyr	Ser	Ala	Asp
					100			105			110				

Val	Gly	Asn	Lys	Thr	Thr	Tyr	Arg	Val	Val	Ala	His	Ser	Ser	Val	Phe
					115			120			125				

Arg	Val	Leu	Arg	Arg	Pro	Gln	Glu	Phe	Val	Asn	Arg	Thr	Pro	Glu	Thr
					130			135			140				

Val	Phe	Ile	Phe	Trp	Gly	Pro	Pro	Ser	Lys	Met	Gln	Lys	Pro	Gln	Gly
					145			150			155				160

Ser Leu Val Arg Val Ile Gln Arg Ala Gly Leu Val Phe Pro Asn Met
 165 170 175
 Glu Ala Tyr Ala Val Ser Pro Gly Arg Met Arg Gln Phe Asp Asp Leu
 180 185 190
 Phe Arg Gly Glu Thr Gly Lys Asp Arg Glu Lys Ser His Ser Trp Leu
 195 200 205
 Ser Thr Gly Trp Phe Thr Met Val Ile Ala Val Glu Leu Cys Asp His
 210 215 220
 Val His Val Tyr Gly Met Val Pro Pro Asn Tyr Cys Ser Gln Arg Pro
 225 230 235 240
 Arg Leu Gln Arg Met Pro Tyr His Tyr Glu Pro Lys Gly Pro Asp
 245 250 255
 Glu Cys Val Thr Tyr Ile Gln Asn Glu His Ser Arg Lys Gly Asn His
 260 265 270
 His Arg Phe Ile Arg Glu Lys Gly Leu Leu Ile Val Gly Pro Ala Val
 275 280 285
 Trp His His Leu Leu Pro Pro Leu Leu Asp Leu Gly His Pro Ala Cys
 290 295 300
 Gly Thr Ser Gly Gly Ser Glu Glu Lys Gln Pro Pro Pro Ser Arg Xaa
 305 310 315 320

<210> 54
 <211> 97
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (97)
 <223> Xaa equals stop translation

 <400> 54
 Met Ala Ala Ser Leu Gly Gln Val Leu Ala Leu Val Leu Val Ala Ala
 1 5 10 15

 Leu Trp Gly Gly Thr Gln Pro Leu Leu Lys Arg Ala Ser Ala Gly Leu
 20 25 30

 Gln Arg Val His Glu Pro Thr Trp Ala Gln Gln Leu Leu Gln Glu Met
 35 40 45

 Lys Thr Leu Phe Leu Asn Thr Glu Tyr Leu Met Pro Phe Leu Leu Asn
 50 55 60

 Gln Cys Gly Ser Leu Leu Tyr Tyr Leu Thr Leu Ala Ser Thr Gly Trp

65	70	75	80
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Ser Gln Thr Ser Glu Phe Arg Ser Ser Cys Trp Asn Pro Gly Lys His			
85	90		95

Xaa

<210> 55
<211> 373
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids.

<220>
<221> SITE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (314)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (315)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (373)
<223> Xaa equals stop translation

<400> 55
Met Ala Trp Thr Lys Tyr Gln Leu Phe Leu Ala Gly Leu Met Leu Val
1 5 10 15

Thr Gly Ser Ile Asn Thr Leu Ser Ala Lys Trp Ala Asp Asn Phe Met
20 25 30

Ala Glu Gly Cys Gly Ser Lys Glu His Ser Phe Gln His Pro Phe
35 40 45

Leu Gln Ala Val Gly Met Phe Leu Gly Glu Phe Ser Cys Leu Ala Ala
50 55 60

Phe Tyr Leu Leu Arg Cys Arg Ala Ala Gly Gln Ser Asp Ser Ser Val
65 70 75 80

Xaa Pro Gln Gln Pro Phe Asn Pro Leu Leu Phe Leu Pro Pro Ala Leu
85 90 95

Cys Asp Met Thr Gly Thr Ser Leu Met Tyr Val Ala Leu Asn Met Thr

100	105	110
Ser Ala Ser Ser Phe Gln Met Leu Arg Gly Ala Ser Asp His Ile His		
115	120	125
Trp Pro Val Leu Gly Gly Leu Pro Gly Pro Glu Ala Gly Ala Glu Pro		
130	135	140
Val Ala Gly His Pro Ser His His Arg Gly Ala Gly Gly Arg Gly Pro		
145	150	155
Gly Xaa Pro Pro Glu Gln Ala Arg Gln Ser Ser Thr Ser Phe Ser Glu		
165	170	175
Val Ile Thr Gly Asp Leu Leu Ile Ile Met Ala Gln Ile Ile Val Ala		
180	185	190
Ile Gln Met Val Leu Glu Glu Lys Phe Val Tyr Lys His Asn Val His		
195	200	205
Pro Leu Arg Ala Val Gly Thr Glu Gly Leu Phe Gly Phe Val Ile Leu		
210	215	220
Ser Leu Leu Leu Val Pro Met Tyr Tyr Ile Pro Ala Gly Ser Phe Ser		
225	230	235
Gly Asn Pro Arg Gly Thr Leu Glu Asp Ala Leu Asp Ala Phe Cys Gln		
245	250	255
Val Gly Gln Gln Pro Leu Ile Ala Val Ala Leu Leu Gly Asn Ile Ser		
260	265	270
Ser Ile Ala Phe Phe Asn Phe Ala Gly Ile Ser Val Thr Lys Glu Leu		
275	280	285
Ser Ala Thr Thr Arg Met Val Leu Asp Ser Leu Arg Thr Val Val Ile		
290	295	300
Trp Ala Leu Ser Leu Ala Leu Gly Trp Xaa Xaa Phe His Ala Leu Gln		
305	310	315
Ile Leu Gly Phe Leu Ile Leu Leu Ile Gly Thr Ala Leu Tyr Asn Gly		
325	330	335
Leu His Arg Pro Leu Leu Gly Arg Leu Ser Arg Gly Arg Pro Leu Ala		
340	345	350
Glu Glu Ser Glu Gln Glu Arg Leu Leu Gly Gly Thr Arg Thr Pro Ile		
355	360	365
Asn Asp Ala Ser Xaa		
370		

<210> 56
 <211> 491
 <212> PRT
 <213> Homo sapiens

<400> 56
Met Glu Asn Glu Glu Ser Asp Val Lys Pro Pro Asp Trp Pro Asn Pro
1 5 10 15

Met Asn Ala Thr Ser Gln Phe Pro Gln Pro Gln His Phe Asp Ser Phe
20 25 30

Gly Leu Arg Leu Pro Arg Asp Ile Thr Glu Leu Pro Glu Trp Ser Glu
35 40 45

Gly Tyr Pro Phe Tyr Met Ala Met Gly Phe Pro Gly Tyr Asp Leu Ser
50 55 60

Ala Asp Asp Ile Ala Gly Lys Phe Gln Phe Ser Arg Gly Met Arg Arg
65 70 75 80

Ser Tyr Asp Ala Gly Phe Lys Leu Met Val Val Glu Tyr Ala Glu Ser
85 90 95

Thr Asn Asn Cys Gln Ala Ala Lys Gln Phe Gly Val Leu Glu Lys Asn
100 105 110

Val Arg Asp Trp Arg Lys Val Lys Pro Gln Leu Gln Asn Ala His Ala
115 120 125

Met Arg Arg Ala Phe Arg Gly Pro Lys Asn Gly Arg Phe Ala Leu Val
130 135 140

Asp Gln Arg Val Ala Glu Tyr Val Arg Tyr Met Gln Ala Lys Gly Asp
145 150 155 160

Pro Ile Thr Arg Glu Ala Met Gln Leu Lys Ala Leu Glu Ile Ala Gln
165 170 175

Glu Met Asn Ile Pro Glu Lys Gly Phe Lys Ala Ser Leu Gly Trp Cys
180 185 190

Arg Arg Met Met Arg Arg Tyr Asp Leu Ser Leu Arg His Lys Val Pro
195 200 205

Val Pro Gln His Leu Pro Glu Asp Leu Thr Glu Lys Leu Val Thr Tyr
210 215 220

Gin Arg Ser Val Leu Ala Leu Arg Arg Ala His Asp Tyr Glu Val Ala
225 230 235 240

Gln Met Gly Asn Ala Asp Glu Thr Pro Ile Cys Leu Glu Val Pro Ser
245 250 255

Arg Val Thr Val Asp Asn Gln Gly Glu Lys Pro Val Leu Val Lys Thr
260 265 270

Pro Gly Arg Glu Lys Leu Lys Ile Thr Ala Met Leu Gly Val Leu Ala
275 280 285

Asp Gly Arg Lys Leu Pro Pro Tyr Ile Ile Leu Arg Gly Thr Tyr Ile
290 295 300

Pro Pro Gly Lys Phe Pro Ser Gly Met Glu Ile Arg Cys His Arg Tyr

305	310	315	320
Gly Trp Met Thr Glu Asp Leu Met Gln Asp Trp Leu Glu Val Val Trp			
325		330	335
Arg Arg Arg Thr Gly Ala Val Pro Lys Gln Arg Gly Met Leu Ile Leu			
340		345	350
Asn Gly Phe Arg Gly His Ala Thr Asp Ser Val Lys Asn Ser Met Glu			
355		360	365
Ser Met Asn Thr Asp Met Val Ile Ile Pro Gly Gly Leu Thr Ser Gln			
370		375	380
Leu Gln Val Leu Asp Val Val Val Tyr Lys Pro Leu Asn Asp Ser Val			
385		390	395
Arg Ala Gln Tyr Ser Asn Trp Leu Leu Ala Gly Asn Leu Ala Leu Ser			
405		410	415
Pro Thr Gly Asn Ala Lys Lys Pro Pro Leu Gly Leu Phe Leu Glu Trp			
420		425	430
Val Met Val Ala Trp Asn Ser Ile Ser Ser Glu Ser Ile Val Gln Gly			
435		440	445
Phe Lys Asn Cys His Ile Ser Ser Asn Leu Glu Glu Asp Asp Val			
450		455	460
Leu Trp Glu Ile Glu Ser Glu Leu Pro Gly Gly Glu Pro Pro Lys			
465		470	475
Asp Cys Asp Thr Glu Ser Met Ala Glu Ser Asn			
485		490	

<210> 57
<211> 188
<212> PRT
<213> Homo sapiens

<400> 57			
Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro			
1	5	10	15
Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp			
20	25	30	
Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu			
35	40	45	
Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe			
50	55	60	
Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe			
65	70	75	80
Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg			
85	90	95	

Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu
 100 105 110

Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
 115 120 125

Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu
 130 135 140

Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr
 145 150 155 160

Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile
 165 170 175

Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
 180 185

<210> 58
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals stop translation

<400> 58
Met Met Gly Glu Arg Cys Leu Ala Leu Asn Val Leu Phe Ala Gly Val
 1 5 10 15

Ala Ser Cys Gln Arg Leu Phe Ser Arg Asn Leu Ser Cys His Cys Phe
 20 25 30

Gly Asp Tyr Cys Asp Pro Ser Leu Xaa
 35 40

<210> 59
<211> 315
<212> PRT
<213> Homo sapiens

<400> 59
Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Glu Leu Thr Met
 1 5 10 15

Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
 20 25 30

Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
 35 40 45

Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
 50 55 60

Ile	Ile	Phe	Ser	Tyr	Val	Gln	Leu	Asp	Pro	Asp	Gly	Ser	Cys	Glu	Ser
65					70					75					80
Glu	Asn	Ile	Lys	Val	Phe	Asp	Gly	Thr	Ser	Ser	Asn	Gly	Pro	Leu	Leu
				85					90					95	
Gly	Gln	Val	Cys	Ser	Lys	Asn	Asp	Tyr	Val	Pro	Val	Phe	Glu	Ser	Ser
				100				105					110		
Ser	Ser	Thr	Leu	Thr	Phe	Gln	Ile	Val	Thr	Asp	Ser	Ala	Arg	Ile	Gln
					115			120					125		
Arg	Thr	Val	Phe	Val	Phe	Tyr	Tyr	Phe	Phe	Ser	Pro	Asn	Ile	Ser	Ile
					130			135				140			
Pro	Asn	Cys	Gly	Gly	Tyr	Leu	Asp	Thr	Leu	Glu	Gly	Ser	Phe	Thr	Ser
					145			150			155			160	
Pro	Asn	Tyr	Pro	Lys	Pro	His	Pro	Glu	Leu	Ala	Tyr	Cys	Val	Trp	His
					165			170			175				
Ile	Gln	Val	Glu	Lys	Asp	Tyr	Lys	Ile	Lys	Leu	Asn	Phe	Lys	Glu	Ile
					180			185			190				
Phe	Leu	Glu	Ile	Asp	Lys	Gln	Cys	Lys	Phe	Asp	Phe	Leu	Ala	Ile	Tyr
					195			200			205				
Asp	Gly	Pro	Ser	Thr	Asn	Ser	Gly	Leu	Ile	Gly	Gln	Val	Cys	Gly	Arg
					210			215			220				
Val	Thr	Pro	Thr	Phe	Glu	Ser	Ser	Ser	Asn	Ser	Leu	Thr	Val	Val	Leu
					225			230			235			240	
Ser	Thr	Asp	Tyr	Ala	Asn	Ser	Tyr	Arg	Gly	Phe	Ser	Ala	Ser	Tyr	Thr
					245			250			255				
Ser	Ile	Tyr	Ala	Glu	Asn	Ile	Asn	Thr	Thr	Ser	Leu	Thr	Cys	Ser	Ser
					260			265			270				
Asp	Arg	Met	Arg	Val	Ile	Ile	Ser	Lys	Ser	Tyr	Leu	Glu	Ala	Phe	Asn
					275			280			285				
Ser	Asn	Gly	Asn	Asn	Leu	Gln	Leu	Lys	Asp	Pro	Thr	Trp	Gln	Thr	Lys
					290			295			300				
Ile	Ile	Lys	Cys	Cys	Gly	Ile	Phe	Cys	Pro	Ser					
					305			310			315				

<210> 60

<211> 327

<212> PRT

<213> Homo sapiens

<400> 60

Met Ala Glu Leu Pro Gly Pro Phe Leu Cys Gly Ala Leu Leu Gly Phe
1 5 10 15

Leu Cys Leu Ser Gly Leu Ala Val Glu Val Lys Val Pro Thr Glu Pro

20

25

30

Leu Ser Thr Pro Leu Gly Lys Thr Ala Glu Leu Thr Cys Thr Tyr Ser
 35 40 45

Thr Ser Val Gly Asp Ser Phe Ala Leu Glu Trp Ser Phe Val Gln Pro
 50 55 60

Gly Lys Pro Ile Ser Glu Ser His Pro Ile Leu Tyr Phe Thr Asn Gly
 65 70 75 80

His Leu Tyr Pro Thr Gly Ser Lys Ser Lys Arg Val Ser Leu Leu Gln
 85 90 95

Asn Pro Pro Thr Val Gly Val Ala Thr Leu Lys Leu Thr Asp Val His
 100 105 110

Pro Ser Asp Thr Gly Thr Tyr Leu Cys Gln Val Asn Asn Pro Pro Asp
 115 120 125

Phe Tyr Thr Asn Gly Leu Gly Leu Ile Asn Leu Thr Val Leu Val Pro
 130 135 140

Pro Ser Asn Pro Leu Cys Ser Gln Ser Gly Gln Thr Ser Val Gly Gly
 145 150 155 160

Ser Thr Ala Leu Arg Cys Ser Ser Ser Glu Gly Ala Pro Lys Pro Val
 165 170 175

Tyr Asn Trp Val Arg Leu Gly Thr Phe Pro Thr Pro Ser Pro Gly Ser
 180 185 190

Met Val Gln Asp Glu Val Ser Gly Gln Leu Ile Leu Thr Asn Leu Ser
 195 200 205

Leu Thr Ser Ser Gly Thr Tyr Arg Cys Val Ala Thr Asn Gln Met Gly
 210 215 220

Ser Ala Ser Cys Glu Leu Thr Leu Ser Val Thr Glu Pro Pro Gln Gly
 225 230 235 240

Arg Val Ala Gly Ala Leu Ile Gly Val Leu Leu Gly Val Leu Leu Leu
 245 250 255

Ser Val Ala Ala Phe Cys Leu Val Arg Phe Gln Lys Glu Arg Gly Lys
 260 265 270

Lys Pro Lys Glu Thr Tyr Gly Ser Asp Leu Arg Glu Asp Ala Ile
 275 280 285

Ala Pro Gly Ile Ser Glu His Thr Cys Met Arg Ala Asp Ser Ser Lys
 290 295 300

Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser Thr Val Thr Thr Thr Lys
 305 310 315 320

Ser Lys Leu Pro Met Val Val
 325

<210> 61
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals stop translation

<400> 61
Met Pro Ala Leu Arg His Pro Ala Trp Pro Cys Ile Phe Ser Leu Leu
1 5 10 15
Met Gly Ile Ser Asn Gly Tyr Phe Gly Ser Val Pro Met Ile Leu Ala
20 25 30
Ala Gly Lys Val Ser Pro Lys Gln Arg Glu Leu Ala Gly Asn Thr Met
35 40 45
Thr Val Ser Tyr Met Ser Gly Leu Thr Leu Gly Ser Ala Val Ala Tyr
50 55 60
Cys Thr Tyr Ser Leu Thr Arg Asp Ala His Gly Ser Cys Leu His Ala
65 70 75 80
Ser Thr Ala Asn Gly Ser Ile Leu Ala Gly Leu Xaa
85 90

<210> 62
<211> 58
<212> PRT
<213> Homo sapiens

<400> 62
Met Glu Gly Ile Ile Thr Phe Leu Ile Leu Pro Leu Pro Cys Ser Pro
1 5 10 15
Gly Cys Pro Val Leu Thr Met Gln Lys Ala Val Ser Cys Thr Leu Glu
20 25 30
Val Ser Val Leu Leu Ser Trp Gly Leu Gly Tyr Ser Gly Ser Cys Leu
35 40 45
Ser Leu Val Pro Lys Ala Tyr Gln Val Ile
50 55

<210> 63
<211> 511
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 63
 Met Val Lys Ile Leu Val Val Thr Val Gln Leu Ile Leu Phe Gly Leu
 1 5 10 15

Ser Asn Gln Leu Ala Val Thr Phe Arg Glu Glu Asn Thr Ile Ala Phe
 20 25 30

Arg His Leu Phe Leu Leu Gly Tyr Ser Asp Gly Ala Asp Asp Thr Phe
 35 40 45

Ala Ala Tyr Thr Arg Glu Gln Leu Tyr Gln Ala Ile Phe His Ala Val
 50 55 60

Asp Gln Tyr Leu Ala Leu Pro Asp Val Ser Leu Gly Arg Tyr Ala Tyr
 65 70 75 80

Val Arg Gly Gly Asp Pro Trp Thr Asn Gly Ser Gly Leu Ala Leu
 85 90 95

Cys Gln Arg Tyr Tyr His Arg Gly His Val Asp Pro Ala Asn Asp Thr
 100 105 110

Phe Asp Ile Asp Pro Met Val Val Thr Asp Cys Ile Gln Val Asp Pro
 115 120 125

Pro Glu Arg Pro Pro Xaa Pro Ser Asp Asp Leu Thr Leu Leu Glu
 130 135 140

Ser Ser Ser Ser Tyr Lys Asn Leu Thr Leu Lys Phe His Lys Leu Val
 145 150 155 160

Asn Val Thr Ile His Phe Arg Leu Lys Thr Ile Asn Leu Gln Ser Leu
 165 170 175

Ile Asn Asn Glu Ile Pro Asp Cys Tyr Thr Phe Ser Val Leu Ile Thr
 180 185 190

Phe Asp Asn Lys Ala His Ser Gly Arg Ile Pro Ile Ser Leu Glu Thr
 195 200 205

Gln Ala His Ile Gln Glu Cys Lys His Pro Ser Val Phe Gln His Gly
 210 215 220

Asp Asn Ser Phe Arg Leu Leu Phe Asp Val Val Ile Leu Thr Cys
 225 230 235 240

Ser Leu Ser Phe Leu Leu Cys Ala Arg Ser Leu Leu Arg Gly Phe Leu
 245 250 255

Leu Gln Asn Glu Phe Val Gly Phe Met Trp Arg Gln Arg Gly Arg Val
 260 265 270

Ile Ser Leu Trp Glu Arg Leu Glu Phe Val Asn Gly Trp Tyr Ile Leu
 275 280 285

Leu Val Thr Ser Asp Val Leu Thr Ile Ser Gly Thr Ile Met Lys Ile
 290 295 300

Gly Ile Glu Ala Lys Asn Leu Ala Ser Tyr Asp Val Cys Ser Ile Leu
 305 310 315 320

Leu Gly Thr Ser Thr Leu Leu Val Trp Val Gly Val Ile Arg Tyr Leu
 325 330 335

Thr Phe Phe His Asn Tyr Asn Ile Leu Ile Ala Thr Leu Arg Val Ala
 340 345 350

Leu Pro Ser Val Met Arg Phe Cys Cys Cys Val Ala Val Ile Tyr Leu
 355 360 365

Gly Tyr Cys Phe Cys Gly Trp Ile Val Leu Gly Pro Tyr His Val Lys
 370 375 380

Phe Arg Ser Leu Ser Met Val Ser Glu Cys Leu Phe Ser Leu Ile Asn
 385 390 395 400

Gly Asp Asp Met Phe Val Thr Phe Ala Ala Met Gln Ala Gln Gln Gly
 405 410 415

Arg Ser Ser Leu Val Trp Leu Phe Ser Gln Leu Tyr Leu Tyr Ser Phe
 420 425 430

Ile Ser Leu Phe Ile Tyr Met Val Leu Ser Leu Phe Ile Ala Leu Ile
 435 440 445

Thr Gly Ala Tyr Asp Thr Ile Lys His Pro Gly Gly Ala Gly Ala Glu
 450 455 460

Glu Ser Glu Leu Gln Ala Tyr Ile Ala Gln Cys Gln Asp Ser Pro Thr
 465 470 475 480

Ser Gly Lys Phe Arg Arg Gly Ser Ala Arg Ala Cys Ser Leu Leu Cys
 485 490 495

Cys Cys Gly Arg Asp Pro Ser Glu Glu His Ser Leu Leu Val Asn
 500 505 510

<210> 64
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals stop translation

<400> 64
 Met Asn Trp Ser Phe Leu Cys Met Cys Leu Ala Cys Phe Pro Leu Asp
 1 5 10 15

Leu Val Leu Gly Val Arg Tyr Ala Ile Glu Asp Cys Val Phe Leu Phe
 20 25 30

His Leu Ser Pro Val Arg Gly Ala Leu Ile Leu Cys Pro Lys Leu Pro
 35 40 45

Pro Trp Pro Trp Arg Cys Phe Cys Gly Leu Val Gly Phe Pro Cys Ala
 50 55 60

His Ala Cys Pro Leu Ser Asp Ser Gly Phe Ala Ser Pro Cys Gln Ser
 65 70 75 80

Val Pro Arg Leu Leu Thr Ala Leu Ala Arg Xaa
 85 90

<210> 65
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals stop translation

<400> 65
Met Ala Ile Trp Val Val Phe Ile Tyr Trp Leu Leu Leu Val Phe Cys
 1 5 10 15

Glu His Ser Cys Ile Ser Phe Arg Val Asp Val Cys Ile His Phe Ser
 20 25 30

Cys Asn Lys Phe Tyr Leu Gly Val Glu Leu Leu Asp His Met Ala Ala
 35 40 45

Leu Leu Thr Leu Trp Gly Thr Ala Arg Leu Leu Phe Lys Val Ser Ala
 50 55 60

Pro Cys Ser Leu Ser Ser Ala Val Tyr Asp Gly Ser Val Ser Ser Gln
 65 70 75 80

Pro His Gln Tyr Leu Phe Ser Val Cys Arg Trp Gly Leu Leu Glu His
 85 90 95

His His Ile His Ser Phe Thr Tyr Tyr Leu Trp Leu Leu Leu Gln Tyr
 100 105 110

Ser Xaa

<210> 66
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals stop translation

<400> 66
Met Thr Phe Gly Ile Val Val Asp Leu Thr Pro Val Phe Val Leu Val

1	5	10	15
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Leu Phe Leu Pro Ala Phe Leu Phe Leu Ser Leu Pro Ser Trp Ser Leu
 20 25 30

Pro Arg Asp Pro Thr His Val Lys Tyr Gly Leu Glu Asp Cys Met Asn
 35 40 45

Ala Ser Xaa
 50

<210> 67
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 67
 Met Leu Leu Gln Val Val Arg Glu Gly Lys Phe Ser Gly Phe Leu Thr
 1 5 10 15

Ser Cys Ser Leu Leu Leu Pro Arg Ala Ala Gln Ile Leu Ala Ala Glu
 20 25 30

Ala Gly Leu Pro Ser Ser Arg Ser Phe Met Gly Phe Ala Ala Pro Phe
 35 40 45

Thr Asn Lys Arg Lys Ala Tyr Ser Glu Arg Arg Ile Met Gly Tyr Ser
 50 55 60

Met Gln Glu Met Tyr Glu Val Val Ser Asn Val Gln Glu Tyr Arg Glu
 65 70 75 80

Phe Val Pro Trp Cys Lys Ser Leu Val Val Ser Ser Arg Lys Gly
 85 90 95

His Leu Lys Ala Gln Leu Glu Val Gly Phe Pro Pro Val Met Glu Arg
 100 105 110

Tyr Thr Ser Ala Val Ser Met Val Lys Pro His Met Val Lys Ala Val
 115 120 125

Cys Thr Asp Gly Lys Leu Phe Asn His Leu Glu Thr Ile Trp Arg Phe
 130 135 140

Ser Pro Gly Ile Pro Ala Tyr Pro Arg Thr Cys Thr Val Asp Phe Ser
 145 150 155 160

Ile Ser Phe Glu Phe Arg Ser Leu Leu His Ser Gln Leu Ala Thr Met
 165 170 175

Phe Phe Asp Glu Val Val Lys Gln Asn Val Ala Ala Phe Glu Arg Arg
 180 185 190

Ala Ala Thr Lys Phe Gly Pro Glu Thr Ala Ile Pro Arg Glu Leu Met
 195 200 205

Phe His Glu Val His Gln Thr
 210 215

<210> 68
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (256)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 68
Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu Gly Ile
1 5 10 15

Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp Ser Lys
20 25 30

Ser Ala Val Gln Asn Lys Val Val Ile Thr Asp Ala Ile Ser Gly
35 40 45

Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala Arg Leu
50 55 60

Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr Asp Ala
65 70 75 80

Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys Leu Val
85 90 95

Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro Asp Val Ala Lys Glu
100 105 110

Val Leu Asp Cys Tyr Gly Cys Val Asp Ile Leu Ile Asn Asn Ala Ser
115 120 125

Val Lys Val Lys Gly Pro Ala His Lys Ile Ser Leu Glu Leu Asp Lys
130 135 140

Lys Ile Met Asp Ala Asn Tyr Phe Gly Pro Ile Thr Leu Thr Lys Ala
145 150 155 160

Leu Leu Pro Asn Met Ile Ser Arg Arg Thr Gly Gln Ile Val Leu Val
165 170 175

Asn Asn Ile Gln Gly Lys Phe Gly Ile Pro Phe Arg Thr Thr Tyr Ala
180 185 190

Ala Ser Lys His Ala Ala Leu Gly Phe Phe Asp Cys Leu Arg Ala Glu
195 200 205

Val Glu Glu Tyr Asp Val Val Ile Ser Thr Val Ser Pro Thr Phe Ile
210 215 220

Arg Ser Tyr His Val Tyr Pro Glu Gln Gly Asn Trp Glu Ala Ser Ile
225 230 235 240

Trp Lys Phe Phe Arg Lys Leu Thr Tyr Gly Val His Pro Val Xaa

245

250

255

Val Ala Glu Glu Val Met Arg Thr Val Arg Arg Lys Lys Gln Glu Val
 260 265 270

Phe Met Ala Asn Pro Ile Pro Lys Ala Ala Val Tyr Val Arg Thr Phe
 275 280 285

Phe Pro Glu Phe Phe Ala Val Val Ala Cys Gly Val Lys Glu Lys
 290 295 300

Leu Asn Val Pro Glu Glu Gly
 305 310

<210> 69
<211> 414
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (414)
<223> Xaa equals stop translation

<400> 69
Met Arg Arg Gly Cys Ala Val Leu Gly Ala Leu Gly Leu Ala Gly
 1 5 10 15

Ala Gly Val Gly Ser Trp Leu Leu Val Leu Tyr Leu Cys Pro Ala Ala
 20 25 30

Ser Gln Pro Ile Ser Gly Thr Leu Gln Asp Glu Glu Ile Thr Leu Ser
 35 40 45

Cys Ser Glu Ala Ser Ala Glu Glu Ala Leu Leu Pro Ala Leu Pro Lys
 50 55 60

Thr Val Ser Phe Arg Ile Asn Ser Glu Asp Phe Leu Leu Glu Ala Gln
 65 70 75 80

Val Arg Asp Gln Pro Arg Trp Leu Leu Val Cys His Glu Gly Trp Ser
 85 90 95

Pro Ala Leu Gly Leu Gln Ile Cys Trp Ser Leu Gly His Leu Arg Leu
 100 105 110

Thr His His Lys Gly Val Asn Leu Thr Asp Ile Lys Leu Asn Ser Ser
 115 120 125

Gln Glu Phe Ala Gln Leu Ser Pro Arg Leu Gly Gly Phe Leu Glu Glu
 130 135 140

Ala Trp Gln Pro Arg Asn Asn Cys Thr Ser Gly Gln Val Val Ser Leu
 145 150 155 160

Arg Cys Ser Glu Cys Gly Ala Arg Pro Leu Ala Ser Arg Ile Val Gly
 165 170 175

Gly Gln Ser Val Ala Pro Gly Arg Trp Pro Trp Gln Ala Ser Val Ala
 180 185 190
 Leu Gly Phe Arg His Thr Cys Gly Gly Ser Val Leu Ala Pro Arg Trp
 195 200 205
 Val Val Thr Ala Ala His Cys Met His Ser Phe Arg Leu Ala Arg Leu
 210 215 220
 Ser Ser Trp Arg Val His Ala Gly Leu Val Ser His Ser Ala Val Arg
 225 230 235 240
 Pro His Gln Gly Ala Leu Val Glu Arg Ile Ile Pro His Pro Leu Tyr
 245 250 255
 Ser Ala Gln Asn His Asp Tyr Asp Val Ala Leu Leu Arg Leu Gln Thr
 260 265 270
 Ala Leu Asn Phe Ser Asp Thr Val Gly Ala Val Cys Leu Pro Ala Lys
 275 280 285
 Glu Gln His Phe Pro Lys Gly Ser Arg Cys Trp Val Ser Gly Trp Gly
 290 295 300
 His Thr His Pro Ser His Thr Tyr Ser Ser Asp Met Leu Gln Asp Thr
 305 310 315 320
 Val Val Pro Leu Phe Ser Thr Gln Leu Cys Asn Ser Ser Cys Val Tyr
 325 330 335
 Ser Gly Ala Leu Thr Pro Arg Met Leu Cys Ala Gly Tyr Leu Asp Gly
 340 345 350
 Arg Ala Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Pro
 355 360 365
 Asp Gly Asp Thr Trp Arg Leu Val Gly Val Val Ser Trp Gly Arg Gly
 370 375 380
 Cys Ala Glu Pro Asn His Pro Gly Val Tyr Ala Lys Val Ala Glu Phe
 385 390 395 400
 Leu Asp Trp Ile His Asp Thr Ala Gln Asp Ser Leu Leu Xaa
 405 410

<210> 70
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals stop translation

<400> 70
 Met Val Ala Tyr Ser Val Gln Val Leu Ala Val Phe Ile Ser Cys Ala
 1 5 10 15

Ile Leu Thr Leu Ala Met Lys Ile Ala Trp Ile Phe Gly Leu Asn Ser
20 25 30

Val Gln Asn Ile Thr Ala Asn Leu Ser Val Asp Gly Ser Thr Ser Gly
35 40 45

Asn	Pro	Ile	Gln	Lys	Trp	Lys	Val	Ile	Trp	Ser	Leu	Xaa
50					55						60	

<210> 71
<211> 69
<212> PRT
<213> *Homo sapiens*

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<220>
<221> SITE
<222> (69)
<223> Xaa equals stop translation
```

<400> 71
Met Ala Ala Pro Leu Val Leu Val Leu Val Val Ala Val Thr Val Arg
1 5 10 15

Glu Val Val Ser Pro Leu Ser Ser Trp Lys Arg Val Val Glu Gly Leu
35 40 45

Ser Leu Leu Gly Leu Gly Ser Ile Ser Val Phe Trp Ser Ser Ile Ser
50 55 60

Trp Lys Leu His Xaa
65

<210> 72
<211> 299
<212> PRT
<213> *Homo sapiens*

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (299)
<223> Xaa equals stop translation
```

<400> 72
Met Phe Phe Phe Asp Ser Val Gln Val Val Phe Thr Ile Cys Thr
1 5 10 15

Ala Val Leu Ala Thr Ile Ala Phe Ala Phe Leu Leu Leu Pro Met Cys
20 25 30

Gln Tyr Leu Thr Arg Pro Cys Ser Pro Gln Asn Lys Ile Ser Phe Gly
 35 . 40 45

Cys Cys Gly Arg Phe Thr Ala Ala Glu Leu Leu Ser Phe Ser Leu Ser
 50 55 60

Val Met Leu Val Leu Ile Trp Val Leu Thr Gly His Trp Leu Leu Met
 65 70 75 80

Asp Ala Leu Ala Met Gly Xaa Cys Val Ala Met Ile Ala Phe Val Arg
 85 90 95

Leu Pro Ser Leu Lys Val Ser Cys Leu Leu Leu Ser Gly Leu Leu Ile
 100 105 110

Tyr Asp Val Phe Trp Val Phe Phe Ser Ala Tyr Ile Phe Asn Ser Asn
 115 120 125

Val Met Val Lys Val Ala Thr Gln Pro Ala Asp Asn Pro Leu Asp Val
 130 135 140

Leu Ser Arg Lys Leu His Leu Gly Pro Asn Val Gly Arg Asp Val Pro
 145 150 155 160

Arg Leu Ser Leu Pro Gly Lys Leu Val Phe Pro Ser Ser Thr Gly Ser
 165 170 175

His Phe Ser Met Leu Gly Ile Gly Asp Ile Val Met Pro Gly Leu Leu
 180 185 190

Leu Cys Phe Val Leu Arg Tyr Asp Asn Tyr Lys Lys Gln Ala Ser Gly
 195 200 205

Asp Ser Cys Gly Ala Pro Gly Pro Ala Asn Ile Ser Gly Arg Met Gln
 210 215 220

Lys Val Ser Tyr Phe His Cys Thr Leu Ile Gly Tyr Phe Val Gly Leu
 225 230 235 240

Leu Thr Ala Thr Val Ala Ser Arg Ile His Arg Ala Ala Gln Pro Ala
 245 250 255

Leu Leu Tyr Leu Val Pro Phe Thr Leu Leu Pro Leu Leu Thr Met Ala
 260 265 270

Tyr Leu Lys Gly Asp Leu Arg Arg Met Trp Ser Glu Pro Phe His Ser
 275 280 285

Lys Ser Ser Ser Arg Phe Leu Glu Val Xaa
 290 295

<210> 73

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (56)
 <223> Xaa equals stop translation

<400> 73
 Met Pro Gly Gly Arg Asp Gly Leu Leu Tyr Leu Tyr His Gly Tyr Ser
 1 5 10 15

Ala	Leu	Leu	Leu	Trp	Pro	Val	Ala	Phe	Leu	His	Leu	Leu	Phe	Leu	Ile
									25					30	

Leu Leu Gly Met Cys Phe Ala Cys Cys Ile Pro Thr Ser Ser Ala Pro
 35 40 45

Leu	His	Thr	Pro	Trp	Leu	Ala	Xaa
	50				55		

<210> 74
 <211> 288
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (288)
 <223> Xaa equals stop translation

<400> 74
 Met Arg Pro Asp Pro Arg Leu Lys Trp Ala Val Leu Val Leu Val Leu
 1 5 10 15

Val	Gln	Met	Leu	Ala	Cys	Trp	Leu	Val	Arg	Gly	Leu	Ala	Trp	Arg	Trp
							20	25					30		

Leu	Leu	Phe	Trp	Ala	Tyr	Ala	Phe	Gly	Gly	Cys	Val	Asn	His	Ser	Leu
							35	40				45			

Thr	Leu	Ala	Ile	His	Asp	Ile	Ser	His	Asn	Ala	Ala	Phe	Gly	Thr	Gly
							50	55				60			

Arg	Ala	Ala	Arg	Asn	Arg	Trp	Leu	Ala	Val	Phe	Ala	Asn	Leu	Pro	Val
							65	70		75			80		

Gly	Val	Pro	Tyr	Ala	Ala	Ser	Phe	Lys	Lys	Tyr	His	Val	Asp	His	His
							85		90			95			

Arg	Tyr	Leu	Gly	Gly	Asp	Gly	Leu	Asp	Val	Asp	Val	Pro	Thr	Arg	Leu
							100		105			110			

Glu	Gly	Trp	Phe	Phe	Cys	Thr	Pro	Ala	Arg	Lys	Leu	Leu	Trp	Leu	Val
							115		120			125			

Leu	Gln	Pro	Phe	Phe	Tyr	Ser	Leu	Arg	Pro	Leu	Cys	Val	His	Pro	Lys
							130		135			140			

Ala	Val	Thr	Arg	Met	Glu	Val	Leu	Asn	Thr	Leu	Val	Gln	Leu	Ala	Ala
							145		150			155		160	

Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro Val Val Tyr Leu
 165 170 175
 Leu Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro Ile Ser Gly His
 180 185 190
 Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His Glu Thr Tyr Ser
 195 200 205
 Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val Gly Tyr His Val
 210 215 220
 Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn Leu Pro Leu Val
 225 230 235 240
 Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro Gln His His Ser
 245 250 255
 Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp Ser Leu Gly Pro
 260 265 270
 Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys Asp Gly Leu Xaa
 275 280 285

<210> 75
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (58)
 <223> Xaa equals stop translation

<400> 75
 Met Asp Met Lys Trp Phe Leu Ile Val Val Leu Ile Cys Ile Pro Leu
 1 5 10 15

Met Thr Ser Asp Ile Glu His Leu Phe Met Cys Leu Leu Pro Phe His
 20 25 30

Val Ser Ser Leu Xaa Lys Cys Leu Phe Lys Ser Phe Ala His Phe Ser
 35 40 45

Val Gly Leu Tyr Phe Val Val Glu Phe Xaa
 50 55

<210> 76
 <211> 59

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals stop translation

<400> 76
 Met Ala Leu Val Trp Leu Cys Phe Leu Asn Ser Val Glu Gly Phe Gly
 1 5 10 15
 Val Ser Arg Ala Pro Pro Leu Ser Pro Pro Leu Glu Glu Asn Ala Gln
 20 25 30
 Asp Ser Gly Ala Ser Phe Arg Tyr Arg Lys Thr Lys Ile Ala Leu Phe
 35 40 45
 Trp Thr Gln Phe Ser Val Thr Ser Ser Leu Xaa
 50 55

<210> 77
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 77
 Met Leu Asn Phe Leu Leu Ser Asn Ser Leu Leu Leu Thr Ile Val Ser
 1 5 10 15
 Ile Val Leu Leu Phe Leu Val Leu Val Thr Cys Gly Thr Val Gln Glu
 20 25 30
 Asp Glu Arg Glu Arg Asp His Ser Cys Asn Phe Tyr Tyr Ser
 35 40 45
 Ile Leu Xaa
 50

<210> 78
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Gly Val Pro Leu Gly Leu Gly Ala Ala Trp Leu Leu Ala Trp Pro
 1 5 10 15
 Gly Leu Ala Leu Pro Leu Val Ala Met Ala Ala Gly Gly Arg Trp Val
 20 25 30
 Arg Gln Gln Gly Pro Arg Val Arg Arg Gly Ile Ser Arg Leu Trp Leu

35	40	45
Arg Val Leu Leu Arg Leu Ser Pro Met Ala Phe Arg Ala Leu Gln Gly		
50	55	60
Cys Gly Ala Val Gly Asp Arg Gly Leu Phe Ala Leu Tyr Pro Lys Thr		
65	70	75
Asn Lys Asp Gly Phe Arg Ser Arg Leu Pro Val Pro Gly Pro Arg Arg		
85	90	95
Arg Asn Pro Arg Thr Thr Gln His Pro Leu Ala Leu Ala Arg Val		
100	105	110
Trp Val Leu Cys Lys Gly Trp Asn Trp Arg Leu Ala Arg Ala Ser Gln		
115	120	125
Gly Leu Ala Ser His Leu Pro Pro Trp Ala Ile His Thr Leu Ala Ser		
130	135	140
Trp Gly Leu Leu Arg Gly Glu Arg Pro Thr Arg Ile Pro Arg Leu Leu		
145	150	155
Pro Arg Ser Gln Arg Gln Leu Gly Pro Pro Ala Ser Arg Gln Pro Leu		
165	170	175
Pro Gly Thr Leu Ala Gly Arg Arg Ser Arg Thr Arg Gln Ser Arg Ala		
180	185	190
Leu Pro Pro Trp Arg		
195		

<210> 79
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals stop translation

<400> 79
 Met Trp Ser Leu Val Ser Val Ser Val Leu Val Leu Thr Cys Ala Val
 1 5 10 15

Asp Val Ala Glu Gly Leu Gly Trp Gly Glu Val Ser Thr Gly Gly Ile
 20 25 30

Glu Leu Pro Arg His Met Val Leu Val Val Leu Val Glu Arg Glu Ser
 35 40 45

Gln Arg Xaa Arg Thr Cys Ser Val Lys Thr Phe Ser Ser Arg Xaa

50

55

60

<210> 80
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals stop translation

<400> 80

Met	Met	Ile	Ser	Ile	Val	Gly	Phe	Leu	Ser	Pro	Phe	Asn	Met	Ile	Leu
1				5					10				15		

Gly	Gly	Ile	Val	Val	Val	Leu	Val	Phe	Thr	Gly	Phe	Val	Trp	Ala	Ala
				20				25				30			

His	Asn	Lys	Asp	Val	Leu	Arg	Arg	Met	Lys	Lys	Arg	Tyr	Pro	Thr	Thr
				35			40				45				

Phe	Val	Met	Val	Val	Met	Leu	Ala	Ser	Tyr	Phe	Leu	Ile	Ser	Met	Phe
		50			55				60						

Gly	Gly	Val	Met	Val	Xaa	Val	Phe	Gly	Ile	Thr	Phe	Pro	Leu	Leu	Leu
		65			70			75			80				

Met	Phe	Ile	His	Ala	Ser	Leu	Arg	Leu	Arg	Asn	Leu	Lys	Asn	Lys	Leu
				85				90			95				

Glu	Asn	Lys	Met	Glu	Gly	Xaa									
			100												

<210> 81
<211> 123
<212> PRT
<213> Homo sapiens

<400> 81

Met	Ile	Leu	Gly	Gly	Ile	Val	Val	Leu	Val	Phe	Thr	Gly	Phe	Val	
1					5			10			15				

Trp	Ala	Ala	His	Asn	Lys	Asp	Val	Leu	Arg	Arg	Met	Lys	Lys	Arg	Tyr
				20			25			30					

Pro	Thr	Thr	Phe	Val	Met	Val	Val	Met	Leu	Ala	Ser	Tyr	Phe	Leu	Ile
				35			40			45					

Ser	Met	Phe	Gly	Gly	Val	Met	Val	Phe	Val	Phe	Gly	Ile	Thr	Phe	Pro
					50			55			60				

Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys
 65 70 75 80

Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr Pro
 85 90 95

Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile Asn
 100 105 110

Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
 115 120

<210> 82

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals stop translation

<400> 82

Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Asp Trp Thr Met
 1 5 10 15

Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
 20 25 30

Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
 35 40 45

Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
 50 55 60

Ile Ile Phe Ser Tyr Val Pro Ala Xaa
 65 70

<210> 83

<211> 246

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (246)

<223> Xaa equals stop translation

<400> 83

Met Ala Glu Leu Pro Gly Pro Phe Leu Cys Gly Ala Leu Leu Gly Phe
 1 5 10 15

Leu Cys Leu Ser Gly Leu Ala Val Glu Val Lys Val Pro Thr Glu Pro
 20 25 30

Leu Ser Thr Pro Leu Gly Lys Thr Ala Glu Leu Thr Cys Thr Tyr Ser
 35 40 45

Thr Ser Val Gly Asp Ser Phe Ala Leu Glu Trp Ser Phe Val Gln Pro
 50 55 60

 Gly Lys Pro Ile Ser Glu Ser His Pro Ile Leu Tyr Phe Thr Asn Gly
 65 70 75 80

 His Leu Tyr Pro Thr Gly Ser Lys Ser Lys Arg Val Ser Leu Leu Gln
 85 90 95

 Asn Pro Pro Thr Val Gly Val Ala Thr Leu Lys Leu Thr Asp Val His
 100 105 110

 Pro Ser Asp Thr Gly Thr Tyr Leu Cys Gln Val Asn Asn Pro Pro Asp
 115 120 125

 Phe Tyr Thr Asn Gly Leu Leu Ile Asn Leu Thr Val Leu Val Pro
 130 135 140

 Pro Ser Asn Pro Leu Cys Ser Gln Ser Gly Gln Thr Ser Val Gly Gly
 145 150 155 160

 Ser Thr Ala Leu Arg Cys Ser Ser Glu Gly Ala Pro Lys Pro Val
 165 170 175

 Tyr Asn Trp Val Arg Leu Gly Thr Phe Pro Thr Pro Ser Pro Gly Ser
 180 185 190

 Met Val Gln Asp Glu Val Ser Gly Gln Leu Ile Leu Thr Asn Leu Ser
 195 200 205

 Leu Thr Ser Ser Gly Thr Tyr Arg Cys Val Ala Thr Asn Gln Met Gly
 210 215 220

 Ser Ala Ser Cys Glu Leu Thr Leu Ser Val Thr Glu Pro Ser Gln Gly
 225 230 235 240

 Arg Val Ala Glu Leu Xaa
 245

<210> 84
 <211> 167
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals stop translation

<400> 84
 Met Gly Val Pro Leu Gly Leu Gly Ala Ala Trp Leu Leu Ala Trp Pro
 1 5 10 15

 Gly Leu Ala Leu Pro Leu Val Ala Met Ala Ala Gly Gly Arg Trp Val
 20 25 30

 Arg Gln Gln Gly Pro Arg Val Arg Arg Gly Ile Ser Arg Leu Trp Leu

35	40	45
Arg Val Leu Leu Arg Leu Ser Pro Met Ala Phe Arg Ala Leu Gln Gly		
50	55	60
Cys Gly Ala Val Gly Asp Arg Gly Leu Phe Ala Leu Tyr Pro Lys Thr		
65	70	75
Asn Lys Asp Gly Phe Arg Ser Arg Leu Pro Val Pro Gly Pro Arg Arg		
85	90	95
Arg Asn Pro Arg Thr Thr Gln His Pro Leu Ala Leu Ala Arg Val		
100	105	110
Trp Val Leu Cys Lys Gly Trp Asn Trp Arg Leu Ala Arg Ala Ser Gln		
115	120	125
Gly Leu Ala Ser His Leu Pro Pro Trp Ala Ile His Thr Leu Ala Ser		
130	135	140
Trp Gly Leu Leu Arg Gly Glu Arg Pro Pro Glu Ser Pro Gly Tyr Tyr		
145	150	155
160		
His Ala Ala Ser Ala Ser Xaa		
165		

<210> 85
<211> 122
<212> PRT
<213> Homo sapiens

<400> 85		
Pro Pro Ala Leu Gly Pro Val Ser Pro Gly Ala Ser Gly Ser Pro Gly		
1	5	10
15		
Pro Val Ala Ala Ala Pro Ser Ser Leu Val Ala Ala Ala Ser Val		
20	25	30
Ala Ala Ala Ala Gly Gly Asp Leu Gly Trp Met Ala Glu Thr Ala Ala		
35	40	45
Ile Ile Thr Asp Ala Ser Phe Leu Ser Gly Leu Ser Ala Ser Leu Leu		
50	55	60
Glu Arg Arg Pro Ala Ser Pro Leu Gly Pro Ala Gly Gly Leu Pro His		
65	70	75
80		
Ala Pro Gln Asp Ser Val Pro Pro Ser Asp Ser Ala Ala Ser Asp Thr		
85	90	95
Thr Pro Leu Gly Ala Ala Val Gly Gly Pro Ser Pro Ala Ser Met Ala		
100	105	110
Pro Thr Glu Ala Pro Ser Glu Val Gly Ser		
115	120	

<210> 86

<211> 346
<212> PRT
<213> Homo sapiens

<400> 86

Lys	Ser	Val	Lys	Leu	Val	Arg	Leu	Gln	Val	Pro	Val	Arg	Asn	Ser	Arg
1				5					10						15

Val Asp Pro Arg Val Arg Lys Gly Phe Leu Arg Asn Val Val Ser Gly

20					25							30			
----	--	--	--	--	----	--	--	--	--	--	--	----	--	--	--

Glu His Tyr Arg Phe Val Ser Met Trp Met Ala Arg Thr Ser Tyr Leu

35					40					45					
----	--	--	--	--	----	--	--	--	--	----	--	--	--	--	--

Ala Ala Phe Ala Ile Met Val Ile Phe Thr Leu Ser Val Ser Met Leu

50					55				60						
----	--	--	--	--	----	--	--	--	----	--	--	--	--	--	--

Leu Arg Tyr Ser His His Gln Ile Phe Val Phe Ile Ala Pro Leu Leu

65				70				75				80			
----	--	--	--	----	--	--	--	----	--	--	--	----	--	--	--

Thr Val Ile Leu Ala Leu Val Gly Met Glu Ala Ile Met Ser Glu Phe

85					90					95					
----	--	--	--	--	----	--	--	--	--	----	--	--	--	--	--

Phe Asn Asp Thr Thr Ala Phe Tyr Ile Ile Leu Ile Val Trp Leu

100					105				110						
-----	--	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--

Ala Asp Gln Tyr Asp Ala Ile Cys Cys His Thr Ser Thr Ser Lys Arg

115					120				125						
-----	--	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--

His Trp Leu Arg Phe Phe Tyr Leu Tyr His Phe Ala Phe Tyr Ala Tyr

130				135				140							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

His Tyr Arg Phe Asn Gly Gln Tyr Ser Ser Leu Ala Leu Val Thr Ser

145				150				155			160				
-----	--	--	--	-----	--	--	--	-----	--	--	-----	--	--	--	--

Trp Leu Phe Ile Gln His Ser Met Ile Tyr Phe Phe His His Tyr Glu

165				170					175						
-----	--	--	--	-----	--	--	--	--	-----	--	--	--	--	--	--

Leu Pro Ala Ile Leu Gln Gln Val Arg Ile Gln Glu Met Leu Leu Gln

180				185					190						
-----	--	--	--	-----	--	--	--	--	-----	--	--	--	--	--	--

Ala Pro Pro Leu Gly Pro Gly Thr Pro Thr Ala Leu Pro Asp Asp Met

195				200				205							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Asn Asn Asn Ser Gly Ala Pro Ala Thr Ala Pro Asp Ser Ala Gly Gln

210				215				220							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Pro Pro Ala Leu Gly Pro Val Ser Pro Gly Ala Ser Gly Ser Pro Gly

225				230				235			240				
-----	--	--	--	-----	--	--	--	-----	--	--	-----	--	--	--	--

Pro Val Ala Ala Ala Pro Ser Ser Leu Val Ala Ala Ala Ser Val

245					250					255					
-----	--	--	--	--	-----	--	--	--	--	-----	--	--	--	--	--

Ala Ala Ala Ala Gly Gly Asp Leu Gly Trp Met Ala Glu Thr Ala Ala

260				265					270						
-----	--	--	--	-----	--	--	--	--	-----	--	--	--	--	--	--

Ile Ile Thr Asp Ala Ser Phe Leu Ser Gly Leu Ser Ala Ser Leu Leu

275				280				285							
-----	--	--	--	-----	--	--	--	-----	--	--	--	--	--	--	--

Glu Arg Arg Pro Ala Ser Pro Leu Gly Pro Ala Gly Gly Leu Pro His
 290 295 300

Ala Pro Gln Asp Ser Val Pro Pro Ser Asp Ser Ala Ala Ser Asp Thr
 305 310 315 320

Thr Pro Leu Gly Ala Ala Val Gly Gly Pro Ser Pro Ala Ser Met Ala
 325 330 335

Pro Thr Glu Ala Pro Ser Glu Val Gly Ser
 340 345

<210> 87

<211> 259

<212> PRT

<213> Homo sapiens

<400> 87

Met Gly Pro His Ser Ile Leu Arg Thr Val His Cys Arg Pro Thr Lys
 1 5 10 15

Thr Pro Pro Glu Pro Ser Ala Glu Pro His Pro Leu Ser Leu Leu Thr
 20 25 30

Ser Ser Asn Thr Ser Leu Ala Gly Thr Ser Leu Gly Arg Asp Leu Thr
 35 40 45

Pro Gly Gly Gly Lys Pro Pro Ser Gly Gln Thr Pro Arg Asn Pro Glu
 50 55 60

Ser Pro Arg His Arg Leu Gly Ser Pro Arg Gly Arg Arg Trp Leu Ala
 65 70 75 80

Ser Pro Thr Pro Thr Gly Ser Gly Arg Ser Gly Pro Ala Ser Arg Gly
 85 90 95

Gln Arg Arg Leu Ser Cys Ala Ala Gln Asp Pro Thr Ser Glu Gly Ala
 100 105 110

Ser Val Gly Ala Met Glu Ala Gly Leu Gly Pro Pro Thr Ala Ala Pro
 115 120 125

Arg Gly Val Val Ser Glu Ala Ala Glu Ser Leu Gly Gly Thr Leu Ser
 130 135 140

Trp Gly Ala Trp Gly Arg Pro Pro Ala Gly Pro Ser Gly Leu Ala Gly
 145 150 155 160

Arg Arg Ser Arg Arg Glu Ala Leu Arg Pro Asp Arg Lys Glu Ala Ser
 165 170 175

Val Met Met Ala Ala Val Ser Ala Ile Gln Pro Arg Ser Pro Pro Ala
 180 185 190

Ala Ala Ala Thr Glu Ala Ala Ala Thr Arg Glu Leu Gly Ala Ala
 195 200 205

Ala Thr Gly Pro Gly Leu Pro Leu Ala Pro Gly Glu Thr Gly Pro Arg

210

215

220

Ala Gly Gly Trp Pro Ala Glu Ser Gly Ala Val Ala Gly Ala Pro Glu
 225 230 235 240

Leu Leu Phe Met Ser Ser Gly Ser Ala Val Gly Val Pro Gly Pro Ser
 245 250 255

Gly Gly Ala

<210> 88
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Ser Ala Pro Pro His Ser Ser Pro Ser Asp Trp Phe Gly Arg Arg
 1 5 10 15

Pro Thr Pro Ser Pro Ser Gly Thr Gly Pro Arg Pro Trp Leu Leu Pro
 20 25 30

Leu Met Leu Ala Pro Ala Pro His Val Pro Met Pro Glu Ala Gln Ala
 35 40 45

Leu Leu Ser Arg Gly Pro Gln Ala Trp Arg Thr Arg Gly Glu Gly Gly
 50 55 60

Ala Met Glu Lys Ala Leu Gln Gly Ala Pro Gly Arg Ala Gly Leu Arg
 65 70 75 80

Pro Ala Gly Thr Arg Ala Arg Gly Pro Thr Pro Ser Arg Pro Leu Leu
 85 90 95

His Thr Ser Ala Leu Leu Arg Asp Leu His His Gly Thr Pro Leu His
 100 105 110

Pro Gln Asp Gly Ser Leu Gln Thr Tyr Gln Asp Pro Ser Arg Thr Phe
 115 120 125

Arg Gly Thr Pro Pro Pro Leu Leu Ala Asp Gln Leu Lys His Leu Thr
 130 135 140

Ser Gly Tyr Lys Pro Arg Ala Arg Pro His Thr Arg Gly Arg Lys Ala
 145 150 155 160

Ala Phe Arg Ala Asn Pro Thr Lys Pro
 165

<210> 89
 <211> 387
 <212> PRT
 <213> Homo sapiens

<400> 89
 Met Arg Arg Ser Thr His Leu Ser Met Pro Leu Trp Pro His Leu Gly

1	5	10	15
Gly	Gly	Asp Arg Arg Gly	Gly Arg Gly Lys
		20	25
Glu	Gly	Gly Glu Gly Gln	Glu Gly
			30
Phe	Met	Gly His Leu Leu Cys	Ala Arg Pro Cys Ala Gln
		35	40
Leu	Trp	Cys Ala Gln Leu Trp Ala	
			45
Arg	Gln	Ser Arg Glu Val Gly	Gly Ser Pro Gly Ser Gln
		50	55
Cys	Gly	Gly Ser Gln Cys Gly	Glu
			60
Ala	Gly	Trp Gly Leu Cys Lys	Gly Ala Phe Ser Ile Thr
		65	70
Leu	Pro	Leu Cys Lys Gly Ala Phe Ser Ile Thr Leu Pro Thr	
			80
Leu	Cys	Pro Gln Leu Arg Ile Gln Leu Gly	Gly Ser Met Val Ser Met
		85	90
Ser	Gly	Gly Arg Arg Lys Cys Arg	Lys Gln Val Val Gln Lys Ala Cys
		100	105
Cys	Pro	Gly Tyr Trp Gly Ser Arg Cys His	Glu Cys Pro Gly Gly Ala
		115	120
Glu	Thr	Pro Cys Asn Gly His Gly Thr Cys	Leu Asp Gly Met Asp Arg
		130	135
Asn	Gly	Thr Cys Val Cys Gln Glu Asn Phe	Arg Gly Ser Ala Cys Gln
		145	150
Glu	Cys	Gln Asp Pro Asn Arg Phe Gly	Pro Asp Cys Gln Ser Val Cys
		165	170
Ser	Cys	Val His Gly Val Cys Asn His Gly	Pro Arg Gly Asp Gly Ser
		180	185
Cys	Leu	Cys Phe Ala Gly Tyr Thr Gly Pro	His Cys Asp Gln Glu Leu
		195	200
Pro	Val	Cys Gln Glu Leu Arg Cys Pro	Gln Asn Thr Gln Cys Ser Ala
		210	215
Glu	Ala	Pro Ser Cys Arg Cys Leu Pro	Gly Tyr Thr Gln Gln Gly Ser
		225	230
Glu	Cys	Arg Ala Pro Asn Pro Cys Trp	Pro Ser Pro Cys Ser Leu Leu
		245	250
Ala	Gln	Cys Ser Val Ser Pro Lys Gly	Gln Ala Gln Cys His Cys Pro
		260	265
Glu	Asn	Tyr His Gly Asp Gly Met Val Cys	Leu Pro Lys Asp Pro Cys
		275	280
Thr	Asp	Leu Gly Gly Cys Pro Ser Asn	Ser Thr Leu Cys Val Tyr
		290	295
Gln	Lys	Pro Gly Gln Ala Phe Cys Thr	Cys Arg Pro Gly Leu Val Ser
		305	310
			315
			320

Ile Asn Ser Asn Ala Ser Ala Gly Cys Phe Ala Phe Cys Ser Pro Phe
 325 330 335

Ser Cys Asp Arg Ser Ala Thr Cys Gln Val Thr Ala Asp Gly Lys Thr
340 345 350

Ser Cys Val Cys Arg Glu Ala Arg Trp Gly Met Gly Val Pro Ala Thr
355 360 365

Asp Thr Cys Ser Thr Arg Cys Arg Arg Pro Arg Arg Gln Ala Gly Cys
 370 375 380

Ser Cys Ser
385

<210> 90
<211> 432
<212> PRT
<213> *Homo sapiens*

<400> 90
Met Asp Val Asp Thr Leu Leu Gly Glu Asp Val Gln Leu His Thr Val
1 5 10 15

Gly Gly Thr Arg Ala Gly Val Gln Gly Leu Ala Val His Thr Gly Ala
20 25 30

Arg His Asn Leu Val Leu Leu Leu Ala Ala Val Leu Gly Gln Asp Gly
35 40 45

Gln Asp Gly Arg Gly Gln Gln Asp Ala Val Gln His Val Asp His Thr
50 55 60

Gln Gln Asp Ala Pro Leu Leu Arg Asn Val His Ser Gln Asp Leu Val
85 90 95

Arg His Gly Glu Asp Pro Thr Leu Gly Asp Glu Leu Leu Asn Gly Gln
100 105 110

Leu Ala Val Val Val Asp Val Val Pro His Gln Leu Leu Gln Phe Arg
115 120 125

Glu Thr Arg Cys Glu Glu Val Asp Gln Ala Ala Val Thr Gln Ala Val
130 135 140

His Ser Leu Ile Ala Trp Gly Lys Asp Cys Glu Gly Pro Arg Ser Val
145 150 155 160

Gln Asp Gly Gly Gln Pro Thr Val Leu Gln Asp Gly Phe Lys Ala Ala.
165 170 175

Glu Gly Leu Gly Arg Gly Glu Asp Leu Ser Asp Ser Ser Leu Gly Ile
180 185 190

Pro Arg Gly Pro Arg Gly Gly Leu Pro Pro Gln Ala Ser Asp His Val

195	200	205
Glu Asp Ala Ile Ser Cys Tyr Val Val Gly Leu Val Asp Val Glu Arg		
210	215	220
Leu Leu Gly Leu Val Phe Val Leu Val Gly Val Phe Arg Glu Leu Val		
225	230	235
240		
Lys Gly Asp Gly Asp Leu Leu Pro Gly Gln Arg Pro Pro Pro Ser Cys		
245	250	255
Leu Leu Gly Pro Cys Val Leu Gln Asp Val Leu Pro Cys Asp Asp Val		
260	265	270
Leu Ser Thr Glu Leu Leu Gly Lys Gly Cys Ile His Gly Pro Gly Gly		
275	280	285
Glu Gly Gly Asp Gly Trp His Gln His Gly Glu Arg Ala Arg Cys Gly		
290	295	300
Lys Asp Phe Pro Ala Ala Leu Val His His Gly His Gly Asp Pro Gln		
305	310	315
320		
Leu Gln Glu His Pro Ala Cys Leu Arg Gly Leu Leu His Leu Val Glu		
325	330	335
Gln Val Ser Val Ala Gly Thr Pro Ile Pro His Leu Ala Ser Leu His		
340	345	350
Thr Gln Leu Val Phe Pro Ser Ala Val Thr Trp Gln Val Ala Asp Arg		
355	360	365
Ser Gln Glu Lys Gly Glu Gln Lys Ala Lys Gln Pro Ala Glu Ala Leu		
370	375	380
Leu Leu Met Leu Thr Arg Pro Gly Arg Gln Val Gln Lys Ala Trp Pro		
385	390	395
400		
Gly Phe Trp Tyr Thr His Lys Val Glu Leu Leu Gly Gln Pro Pro Arg		
405	410	415
Leu Ser Val His Gly Ser Leu Gly Arg His Thr Ile Pro Ser Pro Trp		
420	425	430

<210> 91
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 91

Met Trp Ser Leu Val Ser Val Ser Val Leu Val Leu Thr Cys Ala Val
 1 5 10 15

Asp Val Ala Glu Gly Leu Gly Trp Gly Glu Val Ser Thr Gly Gly Ile
 20 25 30

Glu Leu Pro Arg His Met Val Leu Val Val Leu Val Glu Arg Glu Ser
 35 40 45

Gln Arg Xaa Arg Thr Cys Ser Val Lys Thr Phe Ser Ser Arg
 50 55 60

<210> 92

<211> 123

<212> PRT

<213> Homo sapiens

<400> 92

Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe Val
 1 5 10 15

Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg Tyr
 20 25 30

Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu Ile
 35 40 45

Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe Pro
 50 55 60

Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys
 65 70 75 80

Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr Pro
 85 90 95

Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile Asn
 100 105 110

Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
 115 120

<210> 93

<211> 72

<212> PRT

<213> Homo sapiens

<400> 93

Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Asp Trp Thr Met
 1 5 10 15

Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
 20 25 30

Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
 35 40 45

Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
 50 55 60

Ile Ile Phe Ser Tyr Val Pro Ala
 65 70

<210> 94
 <211> 254
 <212> PRT
 <213> Homo sapiens

<400> 94
 Gln Leu Asp Pro Asp Gly Ser Cys Glu Ser Glu Asn Ile Lys Val Phe
 1 5 10 15

Asp Gly Thr Ser Ser Asn Gly Pro Leu Leu Gly Gln Val Cys Ser Lys
 20 25 30

Asn Asp Tyr Val Pro Val Phe Glu Ser Ser Ser Ser Thr Leu Thr Phe
 35 40 45

Gln Ile Val Thr Asp Ser Ala Arg Ile Gln Arg Thr Val Phe Val Phe
 50 55 60

Tyr Tyr Phe Phe Ser Pro Asn Ile Ser Ile Pro Asn Cys Gly Gly Tyr
 65 70 75 80

Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser Pro Asn Tyr Pro Lys Pro
 85 90 95

His Pro Glu Leu Ala Tyr Cys Val Trp His Ile Gln Val Glu Lys Asp
 100 105 110

Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile Phe Leu Glu Ile Asp Lys
 115 120 125

Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr Asp Gly Pro Ser Thr Asn
 130 135 140

Ser Gly Leu Ile Gly Gln Val Cys Gly Arg Val Thr Pro Thr Phe Glu
 145 150 155 160

Ser Ser Ser Asn Ser Leu Thr Val Val Leu Ser Thr Asp Tyr Ala Asn
 165 170 175

Ser Tyr Arg Gly Phe Ser Ala Ser Tyr Thr Ser Ile Tyr Ala Glu Asn
 180 185 190

Ile Asn Thr Thr Ser Leu Thr Cys Ser Ser Asp Arg Met Arg Val Ile
 195 200 205

Ile Ser Lys Ser Tyr Leu Glu Ala Phe Asn Ser Asn Gly Asn Asn Leu
 210 215 220

Gln Leu Lys Asp Pro Thr Trp Gln Thr Lys Ile Ile Lys Trp Trp Gly
 225 230 235 240

Asn Phe Leu Val Leu Leu Met Asp Val Val His Ser Glu Arg

245

250

<210> 95
<211> 51
<212> PRT
<213> Homo sapiens

<400> 95
Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala Asn
1 5 10 15

Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser Glu
20 25 30

Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg Ile
35 40 45

Ile Phe Ser
50

<210> 96
<211> 324
<212> PRT
<213> Homo sapiens

<400> 96
Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Asp Trp Thr Met
1 5 10 15

Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
20 25 30

Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
35 40 45

Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
50 55 60

Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp Gly Ser Cys Glu Ser
65 70 75 80

Glu Asn Ile Lys Val Phe Asp Gly Thr Ser Ser Asn Gly Pro Leu Leu
85 90 95

Gly Gln Val Cys Ser Lys Asn Asp Tyr Val Pro Val Phe Glu Ser Ser
100 105 110

Ser Ser Thr Leu Thr Phe Gln Ile Val Thr Asp Ser Ala Arg Ile Gln
115 120 125

Arg Thr Val Phe Val Phe Tyr Tyr Phe Ser Pro Asn Ile Ser Ile
130 135 140

Pro Asn Cys Gly Gly Tyr Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser
145 150 155 160

Pro Asn Tyr Pro Lys Pro His Pro Glu Leu Ala Tyr Cys Val Trp His

165	170	175
Ille Gln Val Glu Lys Asp Tyr Lys Ille Lys Leu Asn Phe Lys Glu Ille		
180	185	190
Phe Leu Glu Ille Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ille Tyr		
195	200	205
Asp Gly Pro Ser Thr Asn Ser Gly Leu Ille Gly Gln Val Cys Gly Arg		
210	215	220
Val Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu		
225	230	235
240		
Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr Thr		
245	250	255
Ser Ille Tyr Ala Glu Asn Ille Asn Thr Thr Ser Leu Thr Cys Ser Ser		
260	265	270
Asp Arg Met Arg Val Ille Ille Ser Lys Ser Tyr Leu Glu Ala Phe Asn		
275	280	285
Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr Trp Gln Thr Lys		
290	295	300
Ille Ille Lys Trp Trp Gly Asn Phe Leu Val Leu Leu Met Asp Val Val		
305	310	315
320		
His Ser Glu Arg		

<210> 97
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 97
 Cys Gly Gly Tyr Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser Pro Asn
 1 5 10 15

Tyr Pro Lys Pro His Pro Glu Leu Ala Tyr Cys Val Trp
 20 25

<210> 98
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 98
 Met Ala Glu Leu Pro Gly Pro Phe Leu Cys Gly Ala Leu Leu Gly Phe
 1 5 10 15

Leu Cys Leu Ser Gly Leu Ala Val Glu Val Lys Val Pro Thr Glu Pro
 20 25 30

Leu Ser Thr Pro Leu Gly Lys Thr Ala Glu Leu Thr Cys Thr Tyr Ser

35	40	45
Thr Ser Val Gly Asp Ser Phe Ala Leu Glu Trp Ser Phe Val Gln Pro		
50	55	60
Gly Lys Pro Ile Ser Glu Ser His Pro Ile Leu Tyr Phe Thr Asn Gly		
65	70	75
His Leu Tyr Pro Thr Gly Ser Lys Ser Lys Arg Val Ser Leu Leu Gln		
85	90	95
Asn Pro Pro Thr Val Gly Val Ala Thr Leu Lys Leu Thr Asp Val His		
100	105	110
Pro Ser Asp Thr Gly Thr Tyr Leu Cys Gln Val Asn Asn Pro Pro Asp		
115	120	125
Phe Tyr Thr Asn Gly Leu Gly Leu Ile Asn Leu Thr Val Leu Val Pro		
130	135	140
Pro Ser Asn Pro Leu Cys Ser Gln Ser Gly Gln Thr Ser Val Gly Gly		
145	150	155
160		
Ser Thr Ala Leu Arg Cys Ser Ser Glu Gly Ala Pro Lys Pro Val		
165	170	175
Tyr Asn Trp Val Arg Leu Gly Thr Phe Pro Thr Pro Ser Pro Gly Ser		
180	185	190
Met Val Gln Asp Glu Val Ser Gly Gln Leu Ile Leu Thr Asn Leu Ser		
195	200	205
Leu Thr Ser Ser Gly Thr Tyr Arg Cys Val Ala Thr Asn Gln Met Gly		
210	215	220
Ser Ala Ser Cys Glu Leu Thr Leu Ser Val Thr Glu Pro Ser Gln Gly		
225	230	235
240		
Arg Val Ala Glu Leu		
245		

<210> 99
<211> 10
<212> PRT
<213> Homo sapiens

<400> 99
Leu Phe Leu Leu Gly Tyr Ser Asp Gly Ala
1 5 10

<210> 100
<211> 132
<212> PRT
<213> Homo sapiens

<400> 100
Leu Asn Asn Ser Pro Leu Tyr Glu Asn Thr Thr Phe Tyr Leu Ser Thr

1	5	10	15
His Gln Val Met Ala Ile Trp Val Val Phe Ile Tyr Trp Leu Leu Leu			
20		25	30
Val Phe Cys Glu His Ser Cys Ile Ser Phe Arg Val Asp Val Cys Ile			
35		40	45
His Phe Ser Cys Asn Lys Phe Tyr Leu Gly Val Glu Leu Leu Asp His			
50	55	60	
Met Ala Ala Leu Leu Thr Leu Trp Gly Thr Ala Arg Leu Leu Phe Lys			
65	70	75	80
Val Ser Ala Pro Cys Ser Leu Ser Ser Ala Val Tyr Asp Gly Ser Val			
85		90	95
Ser Ser Gln Pro His Gln Tyr Leu Phe Ser Val Cys Arg Trp Gly Leu			
100		105	110
Leu Glu His His Ile His Ser Phe Thr Tyr Tyr Leu Trp Leu Leu			
115	120	125	
Leu Gln Tyr Ser			
130			

<210> 101
<211> 38
<212> PRT
<213> Homo sapiens

<400> 101			
Leu Leu Asn Lys Thr Thr Phe Tyr Leu Pro Met Ala Arg Gln Val Phe			
1	5	10	15
Phe Gln Leu Ser Pro Ile His Pro Val Pro Ser Asn Leu Ser Met Gly			
20		25	30
Trp Asn Leu Thr Leu Gly			
35			

<210> 102
<211> 88
<212> PRT
<213> Homo sapiens

<400> 102			
Leu Leu Asn Lys Thr Thr Phe Tyr Leu Pro Met Ala Arg Gln Val Phe			
1	5	10	15

Phe Gln Leu Ser Pro Ile His Pro Val Pro Ser Asn Leu Ser Met Gly			
20		25	30

Trp Asn Leu Thr Leu Gly Met Thr Phe Gly Ile Val Val Asp Leu Thr			
35		40	45

Pro Val Phe Val Leu Val Leu Phe Leu Pro Ala Phe Leu Phe Leu Ser			
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50

55

60

Leu Pro Ser Trp Ser Leu Pro Arg Asp Pro Thr His Val Lys Tyr Gly
 65 70 75 80

Leu Glu Asp Cys Met Asn Ala Ser
 85

<210> 103
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 103
 Asn Ser Ala Arg Ala Ala Glu Gly Arg Gly Ser Leu Arg Thr Pro
 1 5 10 15

Gly Phe Arg Gly Gly Gly Val Leu Tyr Trp Asp Ala Gly Ala Ala Gly
 20 25 30

Thr Gly Ser Asn His Ala Leu Gly Ala Asn Val Glu Leu Trp Ile
 35 40 45

<210> 104
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 104
 Asn Ser Ala Arg Ala Ala Glu Gly Arg Gly Ser Leu Arg Thr Pro
 1 5 10 15

Gly Phe Arg Gly Gly Gly Val Leu Tyr Trp Asp Ala Gly Ala Ala Gly
 20 25 30

Thr Gly Ser Asn His Ala Leu Gly Ala Asn Val Glu Leu Trp Ile Met
 35 40 45

Leu Leu Gln Val Val Arg Glu Gly Lys Phe Ser Gly Phe Leu Thr Ser
 50 55 60

Cys Ser Leu Leu Leu Pro Arg Ala Ala Gln Ile Leu Ala Ala Glu Ala
 65 70 75 80

Gly Leu Pro Ser Ser Arg Ser Phe Met Gly Phe Ala Ala Pro Phe Thr
 85 90 95

Asn Lys Arg Lys Ala Tyr Ser Glu Arg Arg Ile Met Gly Tyr Ser Met
 100 105 110

Gln Glu Met Tyr Glu Val Val Ser Asn Val Gln Glu Tyr Arg Glu Phe
 115 120 125

Val Pro Trp Cys Lys Lys Ser Leu Val Val Ser Ser Arg Lys Gly His
 130 135 140

Leu Lys Ala Gln Leu Glu Val Gly Phe Pro Pro Val Met Glu Arg Tyr

145	150	155	160
Thr Ser Ala Val Ser Met Val Lys Pro His Met Val Lys Ala Val Cys			
165		170	175
Thr Asp Gly Lys Leu Phe Asn His Leu Glu Thr Ile Trp Arg Phe Ser			
180		185	190
Pro Gly Ile Pro Ala Tyr Pro Arg Thr Cys Thr Val Asp Phe Ser Ile			
195		200	205
Ser Phe Glu Phe Arg Ser Leu Leu His Ser Gln Leu Ala Thr Met Phe			
210		215	220
Phe Asp Glu Val Val Lys Gln Asn Val Ala Ala Phe Glu Arg Arg Ala			
225		230	235
Ala Thr Lys Phe Gly Pro Glu Thr Ala Ile Pro Arg Glu Leu Met Phe			
245		250	255
His Glu Val His Gln Thr			
260			

<210> 105
<211> 34
<212> PRT
<213> *Homo sapiens*

Arg Trp Ile Phe Phe Gln Lys Cys Arg Pro Ile Leu Ile Lys Phe Val
 1 5 10 15

Ile Asn His Trp Gly Gly Gln Ala Pro Trp Ile Arg Ser Ala Phe Gly
20 25 30

Asp Thr

<210> 106
<211> 345
<212> PRT
<213> *Homo sapiens*

<220>
<221> SITE
<222> (290)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 106
Arg Trp Ile Phe Phe Gln Lys Cys Arg Pro Ile Leu Ile Lys Phe Val
1 5 10 15

Ile Asn His Trp Gly Gly Gln Ala Pro Trp Ile Arg Ser Ala Phe Gly
20 25 30

Asp Thr Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu
35 40 ... 45

Gly Ile Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp
 50 55 60

Ser Lys Ser Ala Val Gln Asn Lys Val Val Val Ile Thr Asp Ala Ile
 65 70 75 80

Ser Gly Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala
 85 90 95

Arg Leu Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr
 100 105 110

Asp Ala Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys
 115 120 125

Leu Val Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro Asp Val Ala
 130 135 140

Lys Glu Val Leu Asp Cys Tyr Gly Cys Val Asp Ile Leu Ile Asn Asn
 145 150 155 160

Ala Ser Val Lys Val Lys Gly Pro Ala His Lys Ile Ser Leu Glu Leu
 165 170 175

Asp Lys Lys Ile Met Asp Ala Asn Tyr Phe Gly Pro Ile Thr Leu Thr
 180 185 190

Lys Ala Leu Leu Pro Asn Met Ile Ser Arg Arg Thr Gly Gln Ile Val
 195 200 205

Leu Val Asn Asn Ile Gln Gly Lys Phe Gly Ile Pro Phe Arg Thr Thr
 210 215 220

Tyr Ala Ala Ser Lys His Ala Ala Leu Gly Phe Phe Asp Cys Leu Arg
 225 230 235 240

Ala Glu Val Glu Glu Tyr Asp Val Val Ile Ser Thr Val Ser Pro Thr
 245 250 255

Phe Ile Arg Ser Tyr His Val Tyr Pro Glu Gln Gly Asn Trp Glu Ala
 260 265 270

Ser Ile Trp Lys Phe Phe Arg Lys Leu Thr Tyr Gly Val His Pro
 275 280 285

Val Xaa Val Ala Glu Glu Val Met Arg Thr Val Arg Arg Lys Lys Gln
 290 295 300

Glu Val Phe Met Ala Asn Pro Ile Pro Lys Ala Ala Val Tyr Val Arg
 305 310 315 320

Thr Phe Phe Pro Glu Phe Phe Ala Val Val Ala Cys Gly Val Lys
 325 330 335

Glu Lys Leu Asn Val Pro Glu Glu Gly
 340 345

<210> 107
<211> 29
<212> PRT
<213> Homo sapiens

<400> 107
Asn Ile Gln Gly Lys Phe Gly Ile Pro Phe Arg Thr Thr Tyr Ala Ala
1 5 10 15
Ser Lys His Ala Ala Leu Gly Phe Phe Asp Cys Leu Arg
20 25

<210> 108
<211> 480
<212> PRT
<213> Homo sapiens

<400> 108
Asp Pro Arg Val Arg Ala Cys Leu Ser Thr Gln Arg Asp Ile Ser Ser
1 5 10 15

Arg Ala Ile Thr Gln Pro Gln Arg Arg Asn Pro Asn Leu Thr Phe Cys
20 25 30

Cys Cys Phe Ser Thr Ile Leu Trp Val Leu Asp Trp Leu Ser Gln Ala
35 40 45

Cys Cys Pro Ala Ala Ser Leu Pro Val Ser Phe Ser Gln Ala Val Cys
50 55 60

Trp Arg Ser Met Arg Arg Gly Cys Ala Val Leu Gly Ala Leu Gly Leu
65 70 75 80

Leu Ala Gly Ala Gly Val Gly Ser Trp Leu Leu Val Leu Tyr Leu Cys
85 90 95

Pro Ala Ala Ser Gln Pro Ile Ser Gly Thr Leu Gln Asp Glu Glu Ile
100 105 110

Thr Leu Ser Cys Ser Glu Ala Ser Ala Glu Glu Ala Leu Leu Pro Ala
115 120 125

Leu Pro Lys Thr Val Ser Phe Arg Ile Asn Ser Glu Asp Phe Leu Leu
130 135 140

Glu Ala Gln Val Arg Asp Gln Pro Arg Trp Leu Leu Val Cys His Glu
145 150 155 160

Gly Trp Ser Pro Ala Leu Gly Leu Gln Ile Cys Trp Ser Leu Gly His
165 170 175

Leu Arg Leu Thr His His Lys Gly Val Asn Leu Thr Asp Ile Lys Leu
180 185 190

Asn Ser Ser Gln Glu Phe Ala Gln Leu Ser Pro Arg Leu Gly Gly Phe
195 200 205

Leu Glu Glu Ala Trp Gln Pro Arg Asn Asn Cys Thr Ser Gly Gln Val

210	215	220
Val Ser Leu Arg Cys Ser Glu Cys Gly Ala Arg Pro Leu Ala Ser Arg		
225	230	235
Ile Val Gly Gly Gln Ser Val Ala Pro Gly Arg Trp Pro Trp Gln Ala		
245	250	255
Ser Val Ala Leu Gly Phe Arg His Thr Cys Gly Ser Val Leu Ala		
260	265	270
Pro Arg Trp Val Val Thr Ala Ala His Cys Met His Ser Phe Arg Leu		
275	280	285
Ala Arg Leu Ser Ser Trp Arg Val His Ala Gly Leu Val Ser His Ser		
290	295	300
Ala Val Arg Pro His Gln Gly Ala Leu Val Glu Arg Ile Ile Pro His		
305	310	315
Pro Leu Tyr Ser Ala Gln Asn His Asp Tyr Asp Val Ala Leu Leu Arg		
325	330	335
Leu Gln Thr Ala Leu Asn Phe Ser Asp Thr Val Gly Ala Val Cys Leu		
340	345	350
Pro Ala Lys Glu Gln His Phe Pro Lys Gly Ser Arg Cys Trp Val Ser		
355	360	365
Gly Trp Gly His Thr His Pro Ser His Thr Tyr Ser Ser Asp Met Leu		
370	375	380
Gln Asp Thr Val Val Pro Leu Phe Ser Thr Gln Leu Cys Asn Ser Ser		
385	390	395
Cys Val Tyr Ser Gly Ala Leu Thr Pro Arg Met Leu Cys Ala Gly Tyr		
405	410	415
Leu Asp Gly Arg Ala Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu		
420	425	430
Val Cys Pro Asp Gly Asp Thr Trp Arg Leu Val Gly Val Val Ser Trp		
435	440	445
Gly Arg Gly Cys Ala Glu Pro Asn His Pro Gly Val Tyr Ala Lys Val		
450	455	460
Ala Glu Phe Leu Asp Trp Ile His Asp Thr Ala Gln Asp Ser Leu Leu		
465	470	475
		480

<210> 109
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 109

Asp	Pro	Arg	Val	Arg	Ala	Cys	Leu	Ser	Thr	Gln	Arg	Asp	Ile	Ser	Ser
1															15
5 10 15															

Arg	Ala	Ile	Thr	Gln	Pro	Gln	Arg	Arg	Asn	Pro	Asn	Leu	Thr	Phe	Cys
															30
20 25 30															

Cys	Cys	Phe	Ser	Thr	Ile	Leu	Trp	Val	Leu	Asp	Trp	Leu	Ser	Gln	Ala
															45
35 40 45															

Cys	Cys	Pro	Ala	Ala	Ser	Leu	Pro	Val	Ser	Phe	Ser	Gln	Ala	Val	Cys
															60
50 55 60															

Trp	Arg	Ser
		65

<210> 110

<211> 30

<212> PRT

<213> Homo sapiens

<400> 110

Thr	Cys	Gly	Gly	Ser	Val	Leu	Ala	Pro	Arg	Trp	Val	Val	Thr	Ala	Ala
1															15
5 10 15															

His	Cys	Met	His	Ser	Phe	Arg	Leu	Ala	Arg	Leu	Ser	Ser	Trp	
														30
20 25 30														

<210> 111

<211> 30

<212> PRT

<213> Homo sapiens

<400> 111

Cys	Ala	Gly	Tyr	Leu	Asp	Gly	Arg	Ala	Asp	Ala	Cys	Gln	Gly	Asp	Ser
1															15
5 10 15															

Gly	Gly	Pro	Leu	Val	Cys	Pro	Asp	Gly	Asp	Thr	Trp	Arg	Leu	
														30
20 25 30														

<210> 112

<211> 72

<212> PRT

<213> Homo sapiens

<400> 112

Cys	Arg	Asn	Ser	Ala	Arg	Ala	Phe	Ser	Gly	Leu	Ser	Met	Val	Ala	Tyr
1															15
5 10 15															

Ser	Val	Gln	Val	Leu	Ala	Val	Phe	Ile	Ser	Cys	Ala	Ile	Leu	Thr	Leu
															30
20 25 30															

Ala	Met	Lys	Ile	Ala	Trp	Ile	Phe	Gly	Leu	Asn	Ser	Val	Gln	Asn	Ile
															45
35 40 45															

Thr	Ala	Asn	Leu	Ser	Val	Asp	Gly	Ser	Thr	Ser	Gly	Asn	Pro	Ile	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Lys Trp Lys Val Ile Trp Ser Leu
 65 70

<210> 113
<211> 12
<212> PRT
<213> Homo sapiens

<400> 113
Cys Arg Asn Ser Ala Arg Ala Phe Ser Gly Leu Ser
 1 5 10

<210> 114
<211> 351
<212> PRT
<213> Homo sapiens

<400> 114
Met Ile Thr Asp Ala Leu Thr Ala Ile Ala Leu Tyr Phe Ala Ile Gln
 1 5 10 15

- Asp Phe Asn Lys Val Val Phe Lys Lys Gln Lys Leu Leu Leu Glu Leu
 20 25 30

Asp Gln Tyr Ala Pro Asp Val Ala Glu Leu Ile Arg Thr Pro Met Glu
 35 40 45

Met Arg Tyr Ile Pro Leu Lys Val Ala Leu Phe Tyr Leu Leu Asn Pro
 50 55 60

Tyr Thr Ile Leu Ser Cys Val Ala Lys Ser Thr Cys Ala Ile Asn Asn
 65 70 75 80

Thr Leu Ile Ala Phe Phe Ile Leu Thr Thr Ile Lys Gly Ser Ala Phe
 85 90 95

Leu Ser Ala Ile Phe Leu Ala Leu Ala Thr Tyr Gln Ser Leu Tyr Pro
 100 105 110

Leu Thr Leu Phe Val Pro Gly Leu Leu Tyr Leu Leu Gln Arg Gln Tyr
 115 120 125

Ile Pro Val Lys Met Lys Ser Lys Ala Phe Trp Ile Phe Ser Trp Glu
 130 135 140

Tyr Ala Met Met Tyr Val Gly Ser Leu Val Val Ile Ile Cys Leu Ser
 145 150 155 160

Phe Phe Leu Leu Ser Ser Trp Asp Phe Ile Pro Ala Val Tyr Gly Phe
 165 170 175

Ile Leu Ser Val Pro Asp Leu Thr Pro Asn Ile Gly Leu Phe Trp Tyr
 180 185 190

Phe Phe Ala Glu Met Phe Glu His Phe Ser Leu Phe Phe Val Cys Val

195	200	205
Phe Gln Ile Asn Val Phe Phe Tyr Thr Ile Pro Leu Ala Ile Lys Leu 210	215	220
Lys Glu His Pro Ile Phe Phe Met Phe Ile Gln Ile Ala Val Ile Ala 225	230	235
Ile Phe Lys Ser Tyr Pro Thr Val Gly Asp Val Ala Leu Tyr Met Ala 245	250	255
Phe Phe Pro Val Trp Asn His Leu Tyr Arg Phe Leu Arg Asn Ile Phe 260	265	270
Val Leu Thr Cys Ile Ile Ile Val Cys Ser Leu Leu Phe Pro Val Leu 275	280	285
Trp His Leu Trp Ile Tyr Pro Gly Asn Ala Asn Ser Asn Phe Phe Tyr 290	295	300
Ala Ile Thr Leu Thr Phe Asn Val Gly Gln Ile Leu Leu Ile Ser Asp 305	310	315
Tyr Phe Tyr Ala Phe Leu Arg Arg Glu Tyr Tyr Leu Thr His Gly Leu 325	330	335
Tyr Leu Thr Ala Lys Asp Gly Thr Glu Ala Met Leu Val Leu Lys 340	345	350

<210> 115
<211> 81
<212> PRT
<213> Homo sapiens

<400> 115		
Pro Thr Arg Pro Arg Ala Pro Ala Pro Val Ile Met Ala Ala Pro Leu 1	5	10
Val Leu Val Leu Val Val Ala Val Thr Val Arg Ala Ala Leu Phe Arg 20	25	30
Ser Ser Leu Ala Glu Phe Ile Ser Glu Arg Val Glu Val Val Ser Pro 35	40	45
Leu Ser Ser Trp Lys Arg Val Val Glu Gly Leu Ser Leu Leu Gly Leu 50	55	60
Gly Ser Ile Ser Val Phe Trp Ser Ser Ile Ser Trp Lys Leu His Ser 65	70	75
Leu		

<210> 116
<211> 11
<212> PRT
<213> Homo sapiens

<400> 116
 Pro Thr Arg Pro Arg Ala Pro Ala Pro Val Ile
 1 5 10

<210> 117
 <211> 322
 <212> PRT
 <213> Homo sapiens

<400> 117
 Ile Tyr Leu Phe His Phe Leu Ile Asp Tyr Ala Glu Leu Val Phe Met
 1 5 10 15

Ile Thr Asp Ala Leu Thr Ala Ile Ala Leu Tyr Phe Ala Ile Gln Asp
 20 25 30

Phe Asn Lys Val Val Phe Lys Lys Gln Lys Leu Leu Glu Leu Asp
 35 40 45

Gln Tyr Ala Pro Asp Val Ala Glu Leu Ile Arg Thr Pro Met Glu Met
 50 55 60

Arg Tyr Ile Pro Leu Lys Val Ala Leu Phe Tyr Leu Leu Asn Pro Tyr
 65 70 75 80

Thr Ile Leu Ser Cys Val Ala Lys Ser Thr Cys Ala Ile Asn Asn Thr
 85 90 95

Leu Ile Ala Phe Phe Ile Leu Thr Thr Ile Lys Gly Ser Ala Phe Leu
 100 105 110

Ser Ala Ile Phe Leu Ala Leu Ala Thr Tyr Gln Ser Leu Tyr Pro Leu
 115 120 125

Thr Leu Phe Val Pro Gly Leu Leu Tyr Leu Leu Gln Arg Gln Tyr Ile
 130 135 140

Pro Val Lys Met Lys Ser Lys Ala Phe Trp Ile Phe Ser Trp Glu Tyr
 145 150 155 160

Ala Met Met Tyr Val Gly Ser Leu Val Val Ile Ile Cys Leu Ser Phe
 165 170 175

Phe Leu Leu Ser Ser Trp Asp Phe Ile Pro Ala Val Tyr Gly Phe Ile
 180 185 190

Leu Ser Val Pro Asp Leu Thr Pro Asn Ile Gly Leu Phe Trp Tyr Phe
 195 200 205

Phe Ala Glu Met Phe Glu His Phe Ser Leu Phe Phe Val Cys Val Phe
 210 215 220

Gln Ile Asn Val Phe Phe Tyr Thr Ile Pro Leu Ala Ile Lys Leu Lys
 225 230 235 240

Glu His Pro Ile Phe Phe Met Phe Ile Gln Ile Ala Val Ile Ala Ile
 245 250 255

Phe Lys Ser Tyr Pro Thr Val Gly Asp Val Ala Leu Tyr Met Ala Phe
 260 265 270

Phe Pro Val Trp Asn His Leu Tyr Arg Phe Leu Arg Asn Ile Phe Val
 275 280 285

Leu Thr Cys Ile Ile Val Cys Ser Leu Leu Pro Val Leu Trp
 290 295 300

His Leu Trp Ile Tyr Pro Gly Met Pro Thr Leu Ile Ser Phe Met Pro
 305 310 315 320

Ser His

<210> 118

<211> 15

<212> PRT

<213> Homo sapiens

<400> 118

Ile Tyr Leu Phe His Phe Leu Ile Asp Tyr Ala Glu Leu Val Phe
 1 5 10 15

<210> 119

<211> 307

<212> PRT

<213> Homo sapiens

<400> 119

Met Ile Thr Asp Ala Leu Thr Ala Ile Ala Leu Tyr Phe Ala Ile Gln
 1 5 10 15

Asp Phe Asn Lys Val Val Phe Lys Lys Gln Lys Leu Leu Leu Glu Leu
 20 25 30

Asp Gln Tyr Ala Pro Asp Val Ala Glu Leu Ile Arg Thr Pro Met Glu
 35 40 45

Met Arg Tyr Ile Pro Leu Lys Val Ala Leu Phe Tyr Leu Leu Asn Pro
 50 55 60

Tyr Thr Ile Leu Ser Cys Val Ala Lys Ser Thr Cys Ala Ile Asn Asn
 65 70 75 80

Thr Leu Ile Ala Phe Phe Ile Leu Thr Thr Ile Lys Gly Ser Ala Phe
 85 90 95

Leu Ser Ala Ile Phe Leu Ala Leu Ala Thr Tyr Gln Ser Leu Tyr Pro
 100 105 110

Leu Thr Leu Phe Val Pro Gly Leu Leu Tyr Leu Leu Gln Arg Gln Tyr
 115 120 125

Ile Pro Val Lys Met Lys Ser Lys Ala Phe Trp Ile Phe Ser Trp Glu
 130 135 140

Tyr Ala Met Met Tyr Val Gly Ser Leu Val Val Ile Ile Cys Leu Ser
 145 150 155 160

Phe Phe Leu Leu Ser Ser Trp Asp Phe Ile Pro Ala Val Tyr Gly Phe
 165 170 175

Ile Leu Ser Val Pro Asp Leu Thr Pro Asn Ile Gly Leu Phe Trp Tyr
 180 185 190

Phe Phe Ala Glu Met Phe Glu His Phe Ser Leu Phe Phe Val Cys Val
 195 200 205

Phe Gln Ile Asn Val Phe Phe Tyr Thr Ile Pro Leu Ala Ile Lys Leu
 210 215 220

Lys Glu His Pro Ile Phe Phe Met Phe Ile Gln Ile Ala Val Ile Ala
 225 230 235 240

Ile Phe Lys Ser Tyr Pro Thr Val Gly Asp Val Ala Leu Tyr Met Ala
 245 250 255

Phe Phe Pro Val Trp Asn His Leu Tyr Arg Phe Leu Arg Asn Ile Phe
 260 265 270

Val Leu Thr Cys Ile Ile Val Cys Ser Leu Leu Phe Pro Val Leu
 275 280 285

Trp His Leu Trp Ile Tyr Pro Gly Met Pro Thr Leu Ile Ser Phe Met
 290 295 300

Pro Ser His
 305

<210> 120

<211> 35

<212> PRT

<213> Homo sapiens

<400> 120

Met Ile Thr Asp Ala Leu Thr Ala Ile Ala Leu Tyr Phe Ala Ile Gln
 1 5 10 15

Asp Phe Asn Lys Val Val Phe Lys Lys Gln Lys Leu Leu Leu Glu Leu
 20 25 30

Asp Gln Tyr
 35

<210> 121

<211> 35

<212> PRT

<213> Homo sapiens

<400> 121

Ala Pro Asp Val Ala Glu Leu Ile Arg Thr Pro Met Glu Met Arg Tyr
 1 5 10 15

Ile Pro Leu Lys Val Ala Leu Phe Tyr Leu Leu Asn Pro Tyr Thr Ile
 20. 25 30

Leu Ser Cys
 35

<210> 122
<211> 35
<212> PRT
<213> Homo sapiens

<400> 122
Val Ala Lys Ser Thr Cys Ala Ile Asn Asn Thr Leu Ile Ala Phe Phe
 1 5 10 15

Ile Leu Thr Thr Ile Lys Gly Ser Ala Phe Leu Ser Ala Ile Phe Leu
 20 25 30

Ala Leu Ala
 35

<210> 123
<211> 35
<212> PRT
<213> Homo sapiens

<400> 123
Thr Tyr Gln Ser Leu Tyr Pro Leu Thr Leu Phe Val Pro Gly Leu Leu
 1 5 10 15

Tyr Leu Leu Gln Arg Gln Tyr Ile Pro Val Lys Met Lys Ser Lys Ala
 20 25 30

Phe Trp Ile
 35

<210> 124
<211> 35
<212> PRT
<213> Homo sapiens

<400> 124
Phe Ser Trp Glu Tyr Ala Met Met Tyr Val Gly Ser Leu Val Val Ile
 1 5 10 15

Ile Cys Leu Ser Phe Phe Leu Leu Ser Ser Trp Asp Phe Ile Pro Ala
 20 25 30

Val Tyr Gly
 35

<210> 125
<211> 35
<212> PRT

<213> Homo sapiens

<400> 125

Phe	Ile	Leu	Ser	Val	Pro	Asp	Leu	Thr	Pro	Asn	Ile	Gly	Leu	Phe	Trp
1				5					10						15

Tyr	Phe	Phe	Ala	Glu	Met	Phe	Glu	His	Phe	Ser	Leu	Phe	Phe	Val	Cys
					20				25					30	

Val Phe Gln

35

<210> 126

<211> 35

<212> PRT

<213> Homo sapiens

<400> 126

Ile	Asn	Val	Phe	Phe	Tyr	Thr	Ile	Pro	Leu	Ala	Ile	Lys	Leu	Lys	Glu
1					5				10						15

His	Pro	Ile	Phe	Phe	Met	Phe	Ile	Gln	Ile	Ala	Val	Ile	Ala	Ile	Phe
					20				25					30	

Lys Ser Tyr

35

<210> 127

<211> 35

<212> PRT

<213> Homo sapiens

<400> 127

Pro	Thr	Val	Gly	Asp	Val	Ala	Leu	Tyr	Met	Ala	Phe	Phe	Pro	Val	Trp
1					5				10						15

Asn	His	Leu	Tyr	Arg	Phe	Leu	Arg	Asn	Ile	Phe	Val	Leu	Thr	Cys	Ile
					20				25					30	

Ile Ile Val

35

<210> 128

<211> 27

<212> PRT

<213> Homo sapiens

<400> 128

Cys	Ser	Leu	Leu	Phe	Pro	Val	Leu	Trp	His	Leu	Trp	Ile	Tyr	Pro	Gly
1					5				10						15

Met	Pro	Thr	Leu	Ile	Ser	Phe	Met	Pro	Ser	His
					20				25	

<210> 129

<211> 391
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 129
Glu Pro Thr Arg Gly Ser Ala Met Ala Glu Gln Thr Tyr Ser Trp Ala
1 5 10 15
Tyr Ser Leu Val Asp Ser Ser Gln Val Ser Thr Phe Leu Ile Ser Ile
20 25 30
Leu Leu Ile Val Tyr Gly Ser Phe Arg Ser Leu Asn Met Asp Phe Glu
35 40 45
Asn Gln Asp Lys Glu Lys Asp Ser Asn Ser Ser Gly Ser Phe Asn
50 55 60
Gly Asn Ser Thr Asn Asn Ser Ile Gln Thr Ile Asp Ser Thr Gln Ala
65 70 75 80
Leu Phe Leu Pro Ile Gly Ala Ser Val Ser Leu Leu Val Met Phe Phe
85 90 95
Phe Phe Asp Ser Val Gln Val Val Phe Thr Ile Cys Thr Ala Val Leu
100 105 110
Ala Thr Ile Ala Phe Ala Phe Leu Leu Leu Pro Met Cys Gln Tyr Leu
115 120 125
Thr Arg Pro Cys Ser Pro Gln Asn Lys Ile Ser Phe Gly Cys Cys Gly
130 135 140
Arg Phe Thr Ala Ala Glu Leu Leu Ser Phe Ser Leu Ser Val Met Leu
145 150 155 160
Val Leu Ile Trp Val Leu Thr Gly His Trp Leu Leu Met Asp Ala Leu
165 170 175
Ala Met Gly Xaa Cys Val Ala Met Ile Ala Phe Val Arg Leu Pro Ser
180 185 190
Leu Lys Val Ser Cys Leu Leu Ser Gly Leu Leu Ile Tyr Asp Val
195 200 205
Phe Trp Val Phe Phe Ser Ala Tyr Ile Phe Asn Ser Asn Val Met Val
210 215 220
Lys Val Ala Thr Gln Pro Ala Asp Asn Pro Leu Asp Val Leu Ser Arg
225 230 235 240
Lys Leu His Leu Gly Pro Asn Val Gly Arg Asp Val Pro Arg Leu Ser
245 250 255
Leu Pro Gly Lys Leu Val Phe Pro Ser Ser Thr Gly Ser His Phe Ser

260

265

270

Met Leu Gly Ile Gly Asp Ile Val Met Pro Gly Leu Leu Leu Cys Phe
 275 280 285

Val Leu Arg Tyr Asp Asn Tyr Lys Lys Gln Ala Ser Gly Asp Ser Cys
 290 295 300

Gly Ala Pro Gly Pro Ala Asn Ile Ser Gly Arg Met Gln Lys Val Ser
 305 310 315 320

Tyr Phe His Cys Thr Leu Ile Gly Tyr Phe Val Gly Leu Leu Thr Ala
 325 330 335

Thr Val Ala Ser Arg Ile His Arg Ala Ala Gln Pro Ala Leu Leu Tyr
 340 345 350

Leu Val Pro Phe Thr Leu Leu Pro Leu Leu Thr Met Ala Tyr Leu Lys
 355 360 365

Gly Asp Leu Arg Arg Met Trp Ser Glu Pro Phe His Ser Lys Ser Ser
 370 375 380

Ser Ser Arg Phe Leu Glu Val
 385 390

<210> 130

<211> 93

<212> PRT

<213> Homo sapiens

<400> 130

Glu Pro Thr Arg Gly Ser Ala Met Ala Glu Gln Thr Tyr Ser Trp Ala
 1 5 10 15

Tyr Ser Leu Val Asp Ser Ser Gln Val Ser Thr Phe Leu Ile Ser Ile
 20 25 30

Leu Leu Ile Val Tyr Gly Ser Phe Arg Ser Leu Asn Met Asp Phe Glu
 35 40 45

Asn Gln Asp Lys Glu Lys Asp Ser Asn Ser Ser Ser Gly Ser Phe Asn
 50 55 60

Gly Asn Ser Thr Asn Asn Ser Ile Gln Thr Ile Asp Ser Thr Gln Ala
 65 70 75 80

Leu Phe Leu Pro Ile Gly Ala Ser Val Ser Leu Leu Val
 85 90

<210> 131

<211> 323

<212> PRT

<213> Homo sapiens

<400> 131

Met Gly Asn Ser Ala Ser Arg Asn Asp Phe Glu Trp Val Tyr Thr Asp

1	5	10	15
Gln Pro His Thr Gln Arg Arg Ala Arg Pro Pro Ala Lys Tyr Pro Ala			
20	25	30	
Ile Lys Ala Leu Met Arg Pro Asp Pro Arg Leu Lys Trp Ala Val Leu			
35	40	45	
Val Leu Val Leu Val Gln Met Leu Ala Cys Trp Leu Val Arg Gly Leu			
50	55	60	
Ala Trp Arg Trp Leu Leu Phe Trp Ala Tyr Ala Phe Gly Gly Cys Val			
65	70	75	80
Asn His Ser Leu Thr Leu Ala Ile His Asp Ile Ser His Asn Ala Ala			
85	90	95	
Phe Gly Thr Gly Arg Ala Ala Arg Asn Arg Trp Leu Ala Val Phe Ala			
100	105	110	
Asn Leu Pro Val Gly Val Pro Tyr Ala Ala Ser Phe Lys Lys Tyr His			
115	120	125	
Val Asp His His Arg Tyr Leu Gly Gly Asp Gly Leu Asp Val Asp Val			
130	135	140	
Pro Thr Arg Leu Glu Gly Trp Phe Phe Cys Thr Pro Ala Arg Lys Leu			
145	150	155	160
Leu Trp Leu Val Leu Gln Pro Phe Phe Tyr Ser Leu Arg Pro Leu Cys			
165	170	175	
Val His Pro Lys Ala Val Thr Arg Met Glu Val Leu Asn Thr Leu Val			
180	185	190	
Gln Leu Ala Ala Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro			
195	200	205	
Val Val Tyr Leu Leu Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro			
210	215	220	
Ile Ser Gly His Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His			
225	230	235	240
Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val			
245	250	255	
Gly Tyr His Val Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn			
260	265	270	
Leu Pro Leu Val Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro			
275	280	285	
Gln His His Ser Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp			
290	295	300	
Ser Leu Gly Pro Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys			
305	310	315	320

Asp Gly Leu

<210> 132

<211> 350

<212> PRT

<213> Homo sapiens

<400> 132

Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ala
1 5 10 15

Val Arg Ala Pro Asn Gly Ala Ser Arg Pro Thr Met Gly Asn Ser Ala
20 25 30

Ser Arg Asn Asp Phe Glu Trp Val Tyr Thr Asp Gln Pro His Thr Gln
35 40 45

Arg Arg Ala Arg Pro Pro Ala Lys Tyr Pro Ala Ile Lys Ala Leu Met
50 55 60

Arg Pro Asp Pro Arg Leu Lys Trp Ala Val Leu Val Val Leu Val
65 70 75 80

Gln Met Leu Ala Cys Trp Leu Val Arg Gly Leu Ala Trp Arg Trp Leu
85 90 95

Leu Phe Trp Ala Tyr Ala Phe Gly Gly Cys Val Asn His Ser Leu Thr
100 105 110

Leu Ala Ile His Asp Ile Ser His Asn Ala Ala Phe Gly Thr Gly Arg
115 120 125

Ala Ala Arg Asn Arg Trp Leu Ala Val Phe Ala Asn Leu Pro Val Gly
130 135 140

Val Pro Tyr Ala Ala Ser Phe Lys Lys Tyr His Val Asp His His Arg
145 150 155 160

Tyr Leu Gly Gly Asp Gly Leu Asp Val Asp Val Pro Thr Arg Leu Glu
165 170 175

Gly Trp Phe Phe Cys Thr Pro Ala Arg Lys Leu Leu Trp Leu Val Leu
180 185 190

Gln Pro Phe Phe Tyr Ser Leu Arg Pro Leu Cys Val His Pro Lys Ala
195 200 205

Val Thr Arg Met Glu Val Leu Asn Thr Leu Val Gln Leu Ala Ala Asp
210 215 220

Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro Val Val Tyr Leu Leu
225 230 235 240

Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro Ile Ser Gly His Phe
245 250 255

Val Ala Glu His Tyr Met Phe Leu Lys Gly His Glu Thr Tyr Ser Tyr

260 265 270

Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val Gly Tyr His Val Glu
 275 280 285

His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn Leu Pro Leu Val Arg
290 295 300

Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro Gln His His Ser Trp
 305 310 315 320

Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp Ser Leu Gly Pro Tyr
 325 330 335

Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys Asp Gly Leu
340 345 350

<210> 133

<211> 27

<212> PRT

<213> Homo sapiens

<400> 133

Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ala
1 5 10 15

Val Arg Ala Pro Asn Gly Ala Ser Arg Pro Thr
20 25

<210> 134

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 134

Phe Leu Ile Ile Ala Phe Leu Met Asp Met Lys Trp Phe Leu Ile Val
 20 25 30

Val Leu Ile Cys Ile Pro Leu Met Thr Ser Asp Ile Glu His Leu Phe
35 40 45

Met Cys Leu Leu Pro Phe His Val Ser Ser Leu Xaa Lys Cys Leu Phe
50 55 60

Lys Ser Phe Ala His Phe Ser Val Gly Leu Tyr Phe Val Val Glu Phe
 65 70 75 80

<210> 135
<211> 23
<212> PRT
<213> Homo sapiens

<400> 135
Gly Phe Ser Phe Ser Thr Ser Leu Pro Thr Leu Val Ile Phe Trp Val
1 5 10 15

Phe Leu Ile Ile Ala Phe Leu
20

<210> 136
<211> 78
<212> PRT
<213> Homo sapiens

<400> 136
Arg Gln Leu Pro Glu Cys Pro Pro Ser Cys Ala Val Ser Cys Trp His
1 5 10 15

Trp Asp Glu Asp Met Ala Leu Val Trp Leu Cys Phe Leu Asn Ser Val
20 25 30

Glu Gly Phe Gly Val Ser Arg Ala Pro Pro Leu Ser Pro Pro Leu Glu
35 40 45

Glu Asn Ala Gln Asp Ser Gly Ala Ser Phe Arg Tyr Arg Lys Thr Lys
50 55 60

Ile Ala Leu Phe Trp Thr Gln Phe Ser Val Thr Ser Ser Leu
65 70 75

<210> 137
<211> 20
<212> PRT
<213> Homo sapiens

<400> 137
Arg Gln Leu Pro Glu Cys Pro Pro Ser Cys Ala Val Ser Cys Trp His
1 5 10 15

Trp Asp Glu Asp
20

<210> 138
<211> 279
<212> PRT
<213> Homo sapiens

<400> 138
His Glu Val Gly Ser Ser Ser Gly Leu Leu Pro Leu Leu Leu Leu
1 5 10 15

<210> 139
<211> 166
<212> PRT
<213> *Homo sapiens*

<400> 139
Met Gly Val Pro Leu Gly Leu Gly Ala Ala Trp Leu Leu Ala Trp Pro

1	5	10	15
Gly Leu Ala Leu Pro Leu Val Ala Met Ala Ala Gly Gly Arg Trp Val			
20		25	30
Arg Gln Gln Gly Pro Arg Val Arg Arg Gly Ile Ser Arg Leu Trp Leu			
35		40	45
Arg Val Leu Leu Arg Leu Ser Pro Met Ala Phe Arg Ala Leu Gln Gly			
50		55	60
Cys Gly Ala Val Gly Asp Arg Gly Leu Phe Ala Leu Tyr Pro Lys Thr			
65		70	75
Asn Lys Asp Gly Phe Arg Ser Arg Leu Pro Val Pro Gly Pro Arg Arg			
85		90	95
Arg Asn Pro Arg Thr Thr Gln His Pro Leu Ala Leu Leu Ala Arg Val			
100		105	110
Trp Val Leu Cys Lys Gly Trp Asn Trp Arg Leu Ala Arg Ala Ser Gln			
115		120	125
Gly Leu Ala Ser His Leu Pro Pro Trp Ala Ile His Thr Leu Ala Ser			
130		135	140
Trp Gly Leu Leu Arg Gly Glu Arg Pro Pro Glu Ser Pro Gly Tyr Tyr			
145		150	155
His Ala Ala Ser Ala Ser			
165			
<210> 140			
<211> 225			
<212> PRT			
<213> Homo sapiens			
<400> 140			
Gln Gly Gly Gly Leu Gln Ala Ala Leu Leu Ala Leu Glu Val Gly			
1		5	10
			15
Leu Val Gly Leu Gly Ala Ser Tyr Leu Leu Leu Cys Thr Ala Leu His			
20		25	30
Leu Pro Ser Ser Leu Phe Leu Leu Leu Ala Gln Gly Thr Ala Leu Gly			
35		40	45
Ala Val Leu Gly Leu Ser Trp Arg Arg Gly Leu Met Gly Val Pro Leu			
50		55	60
Gly Leu Gly Ala Ala Trp Leu Leu Ala Trp Pro Gly Leu Ala Leu Pro			
65		70	75
			80
Leu Val Ala Met Ala Ala Gly Gly Arg Trp Val Arg Gln Gln Gly Pro			
85		90	95
Arg Val Arg Arg Gly Ile Ser Arg Leu Trp Leu Arg Val Leu Leu Arg			
100		105	110

Leu Ser Pro Met Ala Phe Arg Ala Leu Gln Gly Cys Gly Ala Val Gly
115 120 125

Asp Arg Gly Leu Phe Ala Leu Tyr Pro Lys Thr Asn Lys Asp Gly Phe
130 135 140

Arg Ser Arg Leu Pro Val Pro Gly Pro Arg Arg Arg Asn Pro Arg Thr
145 150 155 160

Thr Gln His Pro Leu Ala Leu Ala Arg Val Trp Val Leu Cys Lys
165 170 175

Gly Trp Asn Trp Arg Leu Ala Arg Ala Ser Gln Gly Leu Ala Ser His
180 185 190

Leu Pro Pro Trp Ala Ile His Thr Leu Ala Ser Trp Gly Leu Leu Arg
195 200 205

Gly Glu Arg Pro Pro Glu Ser Pro Gly Tyr Tyr His Ala Ala Ser Ala
210 215 220

Ser
225